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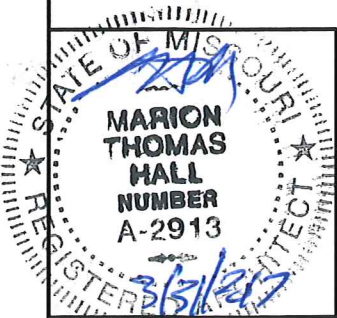
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MISSOURI DEPARTMENT
OF TRANSPORTATION

Belton Mechanics Building
Kansas City District
Route 71, West Outer Road, Belton, MO 64012
Cass County

CODE REQUIREMENTS

- BUILDING CODE - CURRENT IBC
- PLUMBING CODE - CURRENT IBC
- MECHANICAL CODE - CURRENT IBC
- ELECTRICAL CODE - CURRENT N.E.C.



COVER SHEET

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Belton Mechanics Building
Kansas City District - Cass County
Route 71 West Outer Road, Belton MO, 64012

DESIGN BY: LARRY CARVER
DATE: 3-24-17
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LEGEND (EXISTING)

WATER	-----W-----
BURIED ELECTRICAL	-----E-----
SANITARY SEWER	-----SAN-----
NATURAL GAS	-----G-----
500 GALLON LP TANK - LPT	
POWER POLE - PP	

GRADING NOTES:

- CONTRACTOR WILL BE RESPONSIBLE FOR:
- EXCAVATION OF THE SUB GRADE.
 - EXCAVATING OF FOOTINGS.
 - ALL BACK FILL MATERIAL INSIDE AND OUTSIDE NEW BUILDING.
 - CRUSHED ROCK BASE UNDER BUILDING & APPROACH SLAB.
 - BACK FILL ALONG APPROACH SLAB A MINIMUM OF 6" BELOW TOP OF SLAB AND SIDEWALK.
 - PROVIDE 6" OF COMPACTED 1" MINUS ROCK UP TO 15'-0" OUTSIDE NEW BUILDING INCLUDING APPROACH PAD. CONTOUR TO DRAIN AWAY FROM NEW CONSTRUCTION.
 - VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION.
 - MODOT TO HAVE THE FOUR CORNERS STAKED AND BUILDING FOOTPRINT & EXTERIOR APPROACH SLAB LEVELED.
 - EXCAVATED SOIL AND ROCK NOT USED CAN BE PLACED ON SITE. AREA TO BE DESIGNATED BY OWNER.
 - CONTRACTOR TO INSTALL TRACER WIRE ON ALL WATER AND SEWER SYSTEMS AND AN ACCESS POINT WITHIN A PROTECTIVE ENCLOSURE IN THE PUBLIC RIGHT OF WAY FOR ANY NEWLY INSTALLED OR FULLY REPLACED FACILITIES.
 - CONTRACTOR TO PROVIDE AND INSTALL ADEQUATE AMOUNT OF TOPSOIL, STARTER FERTILIZER, TRIPLE "T" SEED AND STRAW FOR ANY LAWN AREAS TO REMAIN AS SAME BUT DISTURBED DURING CONSTRUCTION.

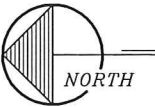
SITE NOTES

- A** RUN STORM SEWER TO DAYLIGHT. CONTRACTOR TO PROVIDE 20'-0" LONG x 5'-0" x 12" DEEP RIP-RAP (3" DIAMETER ROCK) OVER 4.1 OUNCE, 30 MIL. WEED BARRIER. SEE PLUMBING PLAN FOR THE STORM SCHEDULE 35 PVC SIZE(S). CHANGE TO SCHEDULE 40 PVC 10'-0" FROM DAY-LIGHTING INTO RIP-RAP. SEE DETAIL C-5. 20' TO RIP-RAP.
- B** CONTRACTOR TO MAKE CONNECTION AS REQUIRED FOR AN OPERABLE GAS SERVICE FROM MODOT PROVIDED 500 GALLON PROPANE TANK. CONTRACTOR TO PROVIDE CORRECTLY SIZED 4" THICK CONCRETE PAD.
- C** CONTRACTOR TO MAKE CONNECTION AS REQUIRED AT AN EXISTING 2" WATER LINE INTO EXISTING TRUCK WASH. ADD FIBERGLASS OR CONCRETE PIT WITH LID SIZED AS REQUIRED. IN THE PIT ADD 2" SHUT-OFF TO THE TRUCK WASH AND 1-1/4" SHUT-OFF TO NEW BUILDING. ADD NEW 1-1/4" HDPE 250 PSI WATER LINE FOR SERVICE INTO NEW BUILDING. CHANGE TO COPPER THROUGH WALL AND INTO BUILDING FOR A FUNCTIONAL SERVICE.
- D** CONTRACTOR TO PROVIDE AND INSTALL A 1,200 GALLON OIL SEPARATOR AND 1,500 GALLON HOLDING TANK FOR SANITARY SERVICE AS REQUIRED FOR A FUNCTIONAL SYSTEM 5'-0" FROM WESTERN WALL OF NEW BUILDING. SEE PLUMBING PLAN.
- E** CONTRACTOR TO PROVIDE CONDUCTORS IN CONDUIT AS REQUIRED FROM AN EXISTING METER AND DISCONNECT ON AN EXISTING POWER POLE APPROXIMATELY 78'-0"± FROM EAST WALL TO PANEL BOARD LPA FOR A FUNCTIONAL SERVICE.

LEGEND (NEW)

PROPANE GAS	-----G-----
1-1/4" WATER	-----W-----
ELECTRIC 1 PHASE	-----E-----
STORM SEWER	-----S-----
SANITARY SEWER	-----SAN-----
1,200 GAL. OIL SEPARATOR - OS	
1,500 GAL. HOLDING TANK - HT	
WATER PIT - WP	

A
2 **SITE PLAN**
SCALE: 1'-0" = 100'-0"



SITE PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

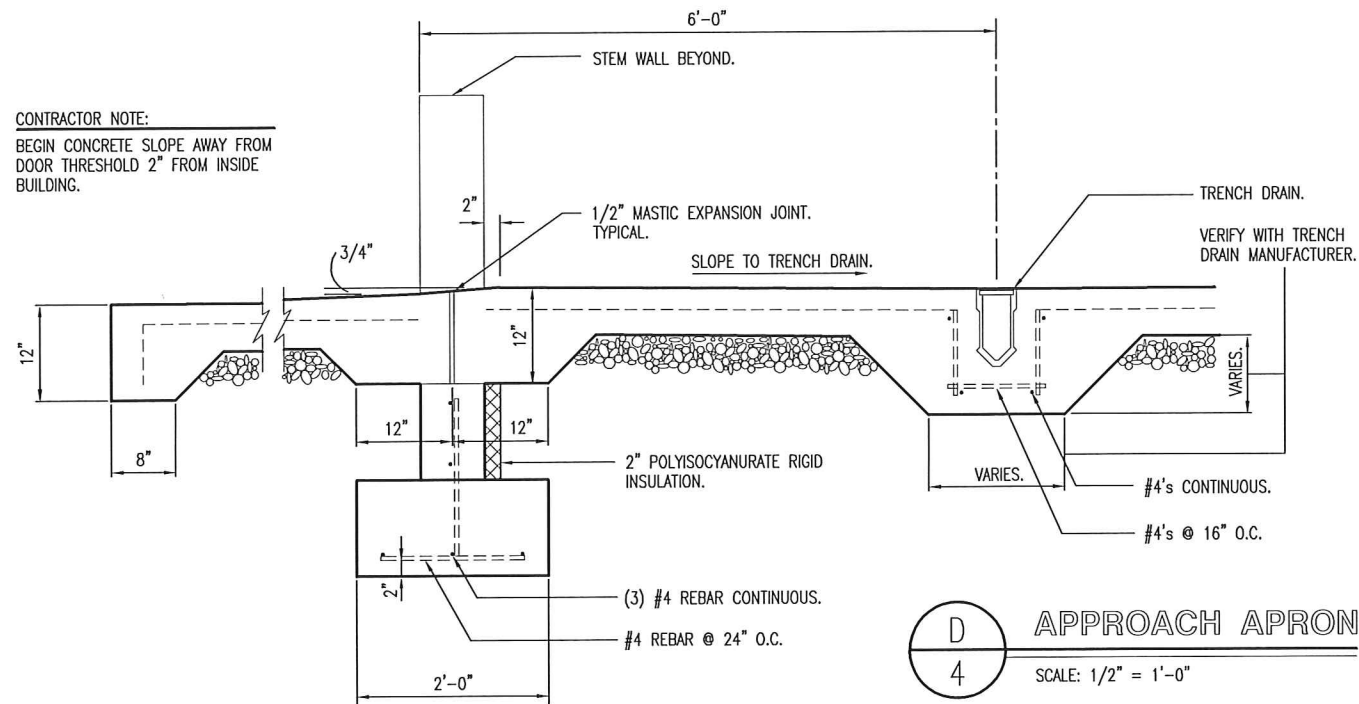
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Kansas City District - Cass County
Route 71 West Outer Road, Belton MO, 64012

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DATE: 3-24-17

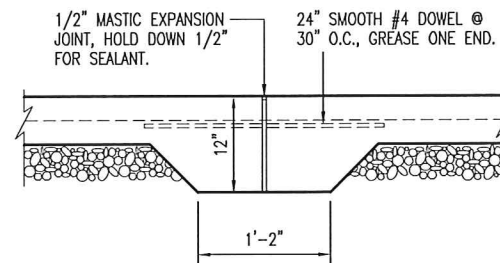
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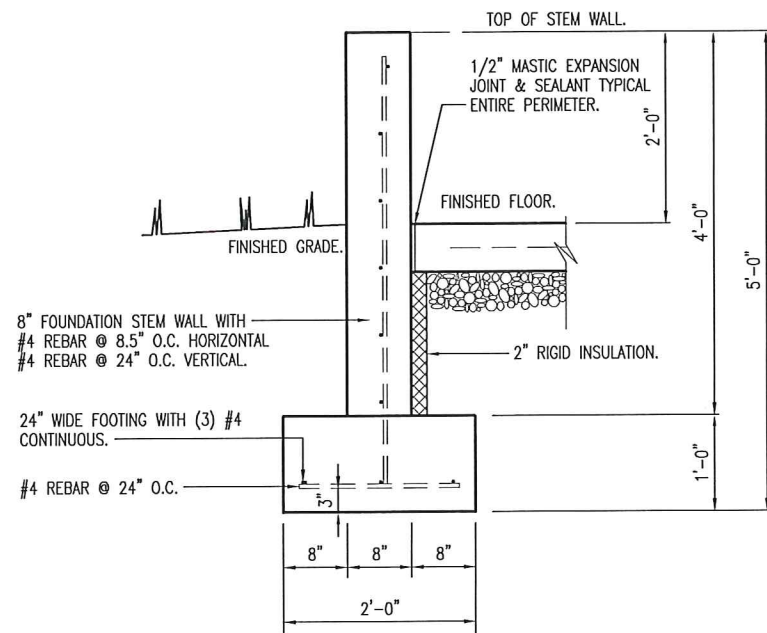
CONTRACTOR NOTE:
BEGIN CONCRETE SLOPE AWAY FROM
DOOR THRESHOLD 2" FROM INSIDE
BUILDING.



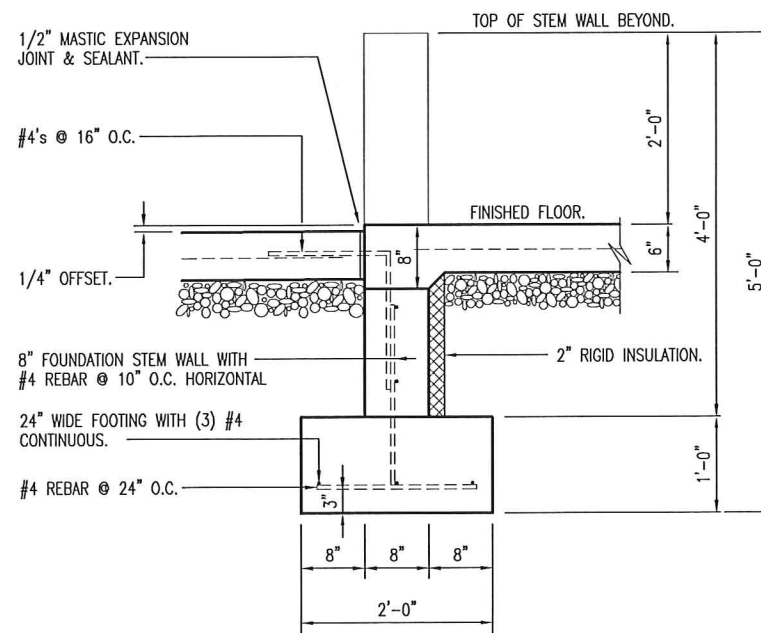
D
4
APPROACH APRON
SCALE: 1/2" = 1'-0"



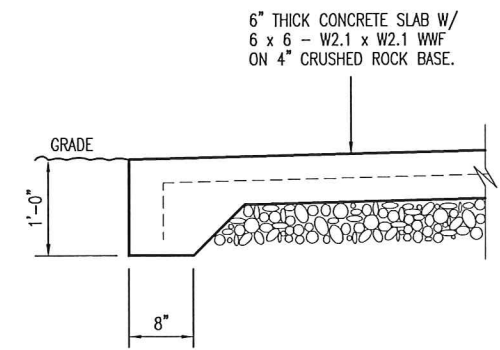
E
4
EXPANSION JOINT
SCALE: 1/2" = 1'-0"



A
4
STEM WALL
SCALE: 1/2" = 1'-0"



B
4
EXTERIOR STEM WALL @ DOOR
SCALE: 1/2" = 1'-0"



C
4
SIDEWALK SECTION
SCALE: 1/2" = 1'-0"

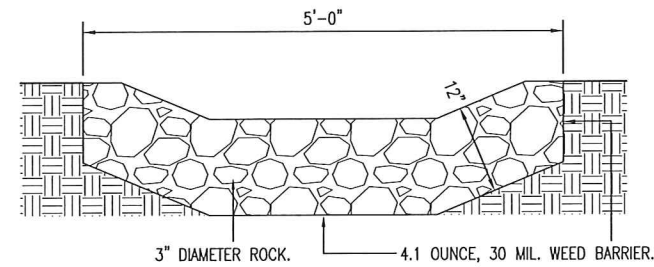


FOUNDATION DETAILS

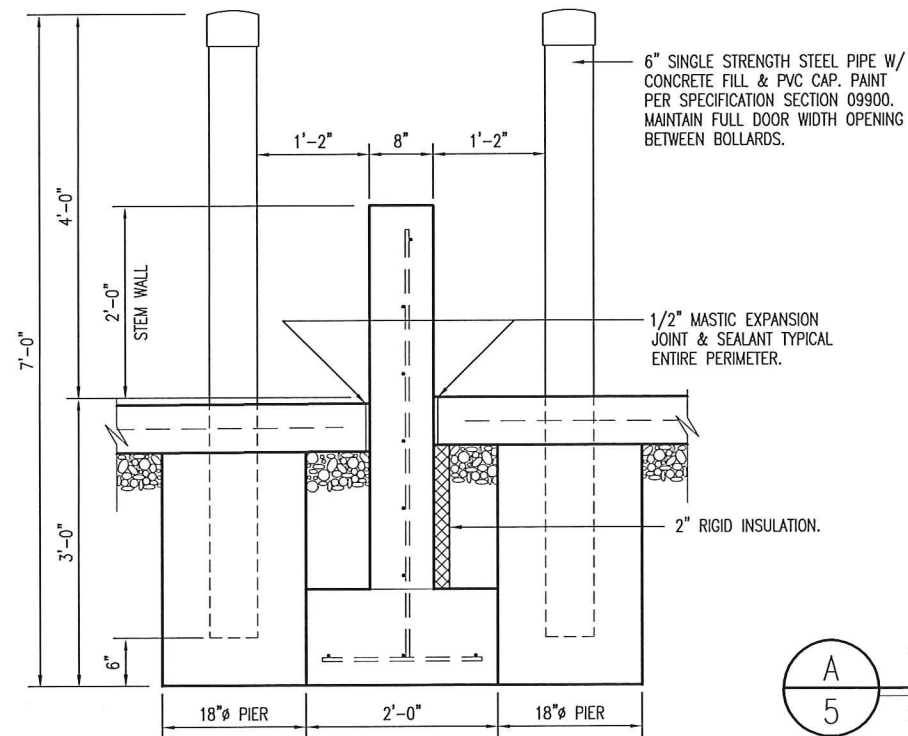
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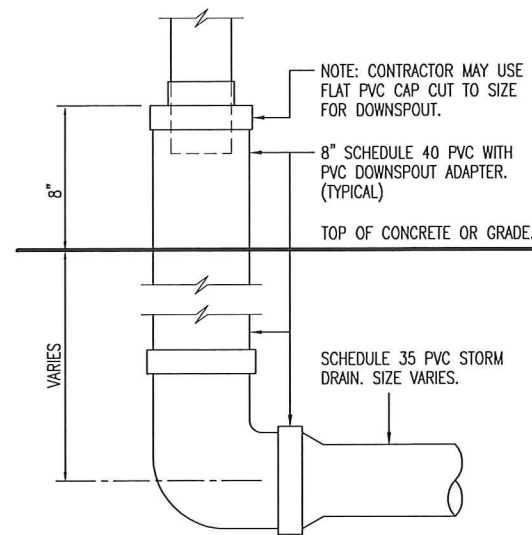
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C
5 RIP - RAP SECTION
SCALE: 1/2" = 1'-0"



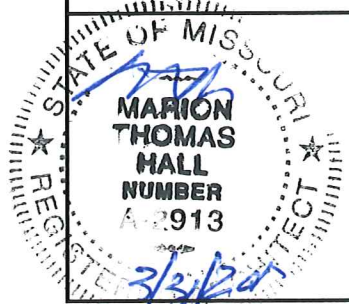
A
5 BOLLARD @ FOOTING DETAIL
SCALE: 1/2" = 1'-0"



B
5 DOWNSPOUT ADAPTER
SCALE: 3/4" = 1'-0"

CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) MANUAL OF CONCRETE PRACTICE.
2. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2,000 PSF. IF WET OR UNUSUAL SOIL CONDITIONS ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
3. IF CONDITIONS REQUIRING ROCK EXCAVATION ARE ENCOUNTERED, NOTIFY THE DESIGNER AND CONSTRUCTION INSPECTOR BEFORE PROCEEDING WITH THE WORK.
4. ALL CONCRETE SHALL BE TYPE 1 CEMENT WITH A COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS AND NOT TO EXCEED 4" SLUMP.
5. FOUNDATION PIERS AND FOOTINGS SHALL BEAR A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL AND 36 INCHES MINIMUM BELOW FINISH GRADE.
6. DEFORMED STEEL REINFORCING BARS SHALL BE: #4 AND LARGER ASTM A615 GRADE 60.
7. SEE SPECIFICATION SECTION 03300 CONCRETE FOR ADDITIONAL INFORMATION.
8. CONCRETE EXPOSED TO THE EXTERIOR SHALL RECEIVE AIR ENTRAINMENT 6% +/- 2%.
9. PROVIDE CORNER REINFORCING BARS WITH 12" MINIMUM LAP EQUAL IN SIZE AND GRADE TO CONNECTING BARS.
10. EXTERIOR CONCRETE FLATWORK SHALL HAVE A LIGHT BROOM FINISH.
11. COORDINATE WORK OF OTHER TRADES REQUIRED TO BE INSTALLED IN, UNDER, OR THROUGH CONCRETE PRIOR TO PLACEMENT OF CONCRETE. INSTALL ALL ANCHORAGES AND SLEEVES REQUIRED FOR THE INSTALLATION OF WORK BY OTHER TRADES.
12. ENTIRE PERIMETER OF BUILDING TO RECEIVE 2" POLYISOCYANURATE RIGID INSULATION BOARD.
13. SAWED CONTROL JOINTS SHALL BE CLEANED FREE OF ALL DEBRIS AND FILLED WITH SEALANT. SEE SECTION 07900.
14. ALL EXPOSED INTERIOR CONCRETE FLOORS SHALL RECEIVE A CURING/SEALING FINISH PER SPECIFICATION SECTION 03346.
15. COPPER PIPING RUN THROUGH CONCRETE WORK SHALL BE RUN THROUGH PVC SLEEVES.
16. PROVIDE PRE-CAST TRENCH DRAIN & CATCH BASIN AS SPECIFIED. INSTALL AS RECOMMENDED BY THE MANUFACTURER. ACTUAL CONSTRUCTION AND INSTALLATION MAY REQUIRE SOME FIELD MODIFICATIONS. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL HAVE PRIOR APPROVAL FROM THE ARCHITECT OR BUILDING INSPECTOR.



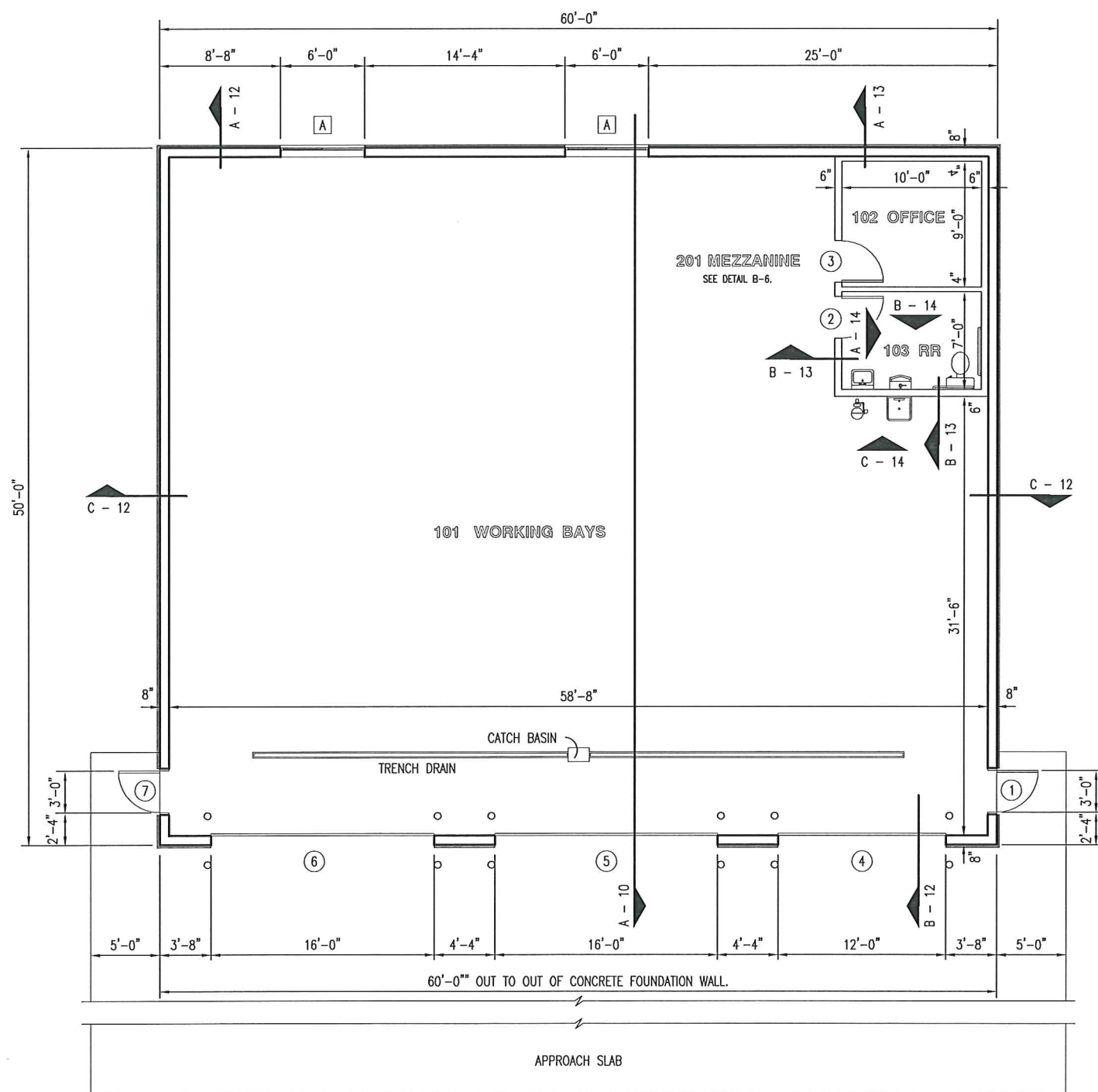
FOUNDATION DETAILS

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3/4" TONGUE AND GROOVE PLYWOOD
DECK GLUE AND SCREW. (TYPICAL)

PARTITION WALLS BELOW ALL SHOWN
DASHED. WALLS TO BE BEARING WALLS.
INSTALL SOUND BATT INSULATION TO 1"
ABOVE FINISHED CEILING.

26 GA. INTERIOR METAL LINER PANEL
FROM FINISHED MEZZANINE FLOOR TO
FINISHED CEILING. PROVIDE BOTTOM
CLOSURE TRIM AND RAT GUARD. (TYP.)

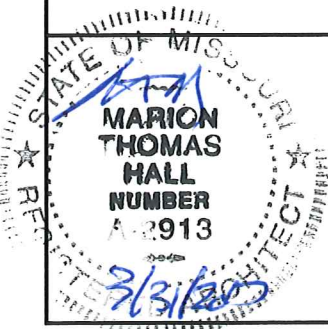
4" x 6" x 1/4" BENT PLATE THE
MEZZANINE EDGE. NO LAG BOLTS
ALONG THE 4" HORIZONTAL LEG.

WOOD FLOOR TRUSSES:
WIDE FLANGE I-JOISTS EQUAL TO
GEORGIA-PACIFIC 60 SERIES 11-7/8"
DEPTH @ 12" O.C.

201
B
6
MEZZANINE PLAN
SCALE: 3/16" = 1'-0"



A
6
FLOOR PLAN
SCALE: 3/32" = 1'-0"



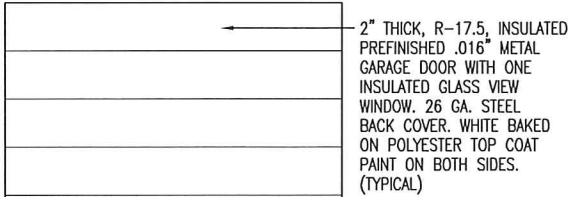
FLOOR PLAN

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DOOR SCHEDULE							
NO.	SIZE	SWING	DR. TYPE	FRM. TYPE	DETAIL	DEPTH	HDWR. GRP.
1	3'-0" x 7'-0" x 1-3/4"	RHR	B	I	C-11	6-1/2"	1
2	3'-0" x 7'-0" x 1-3/4"	LH	D	I	D-11	7-5/8"	2
3	3'-0" x 7'-0" x 1-3/4"	RH	C	I	D-11	7-5/8"	3
4	12'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
5	16'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
6	16'-0" x 14'-0" x 2"	-	A	-	A & B-11	-	-
7	3'-0" x 7'-0" x 1-3/4"	LHR	B	I	C-11	6-1/2"	1



TYPE A

3'-0" x 7'-0" x 1-3/4"
INSULATED HOLLOW METAL
DOOR W/11" x 11" x 3/4"
INSUL. TEMPERED GLASS.
REINFORCED FOR CLOSER.



TYPE B

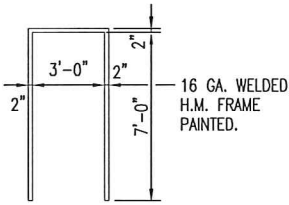


TYPE C

3'-0" x 7'-0" x 1-3/4"
HOLLOW METAL DOOR
PAINTED.

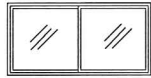


TYPE D



TYPE I

WINDOW SCHEDULE



SEE DETAIL E-11.



6'-0" x 3'-0"
ALUMINUM DOUBLE
HORIZONTAL SLIDER
WITH SECURITY SCREEN.

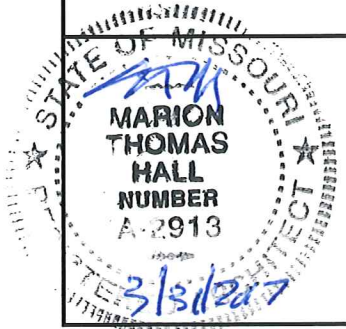
SILL HEIGHT:
48" A.F.F.

GENERAL NOTES:

CONTRACTOR TO FURNISH ALL NECESSARY FLASHING AND TRIM TO PROVIDE A NEAT, WEATHERPROOF FIT AT ALL DOORS, COLUMNS AND ANY LOCATION WHERE THE METAL PANELS MAY BE CUT.

FINISH SCHEDULE											
NO.	ROOM	FLOOR	WALLS					BASE		CEILING	
		3/4" T & G PLYWOOD.	CURE AND SEALER ON CONCRETE.	26 GA. INTERIOR PANELS	1/2" AC PLYWOOD PAINTED ON EXTERIOR SIDE OF OFFICE WALL.	5/8" GYPSUM BOARD.	5/8" GREEN GYP. BD. PAINTED.	NONE	4" VINYL	4" VINYL ON EXTERIOR SIDE OF OFFICE WALL.	26 GA. CEILING PANELS.
101	WORKING BAYS		●	●	●			●		●	
102	OFFICE		●			●	●		●		●
103	REST ROOM		●			●	●		●		●
201	MEZZANINE	●		●				●			●

HVAC SCHEDULE						
SYM.	UNIT	MANUFACTURER	BTU OUTPUT	FUEL	VOLTAGE	REMARKS
A	36" x 36" SHUTTER MOUNT EXHAUST FAN WITH WEATHERHOOD	DAYTON 1HLB6 & 1WBW2 OR EQUAL 6.4 AMPS	6,480 CFM	ELECTRIC	115	COMMERCIAL TYPE BELT DRIVE WALL EXHAUST FAN INCLUDING OSHA GUARD AND SHUTTER.
B	MOTORIZED DAMPER WITH WEATHERHOOD	DAYTON MODEL 3C728 & 1WBW1 OR EQUAL .37 AMPS	---	ELECTRIC	115	30" MEDIUM GRADE, MOTORIZED, GALVANIZED STEEL DAMPER WITH 1HP MOTOR. WIRE TO OPEN WHEN EXHAUST FAN IS TURNED ON.
C	GAS FIRED UNIT HEATER	REZNOR MODEL UDAP 225 OR EQUAL	186,750	PROPANE	115	SINGLE BURNER COMBUSTION, DIRECT SPARK IGNITION, 100% LOCK-OUT & CL-1 STANDARD HEATING ONLY THERMOSTAT.
D	CARBON MONOXIDE EXHAUST SYSTEM	CAR-MON MODELS TSR-S32, 6" REEL CMW-9 OR EQUAL	---	ELECTRIC	115	INCLUDES HOSE, DIRECT DRIVE FLANGE MOUNTED EXHAUST FAN, DUCTING, EXTERIOR WALL HOOD, 3/4 HP MOTOR, 13.8 AMP.
E	PTAC UNIT - HEAT PUMP	FRIEDRICH MODEL PDH07K3SG OR EQUAL	COOL 7.2K HEAT 6K	ELECTRIC	208/230	EER 12. INCLUDE PDXWSA WALL SLEEVE, PDXDAA LATERAL DUCT KIT & PXGA EXTERIOR GRILL. MOUNT 24" A.F.F. TO BOTTOM.



SCHEDULES

MISSOURI DEPARTMENT OF TRANSPORTATION

DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

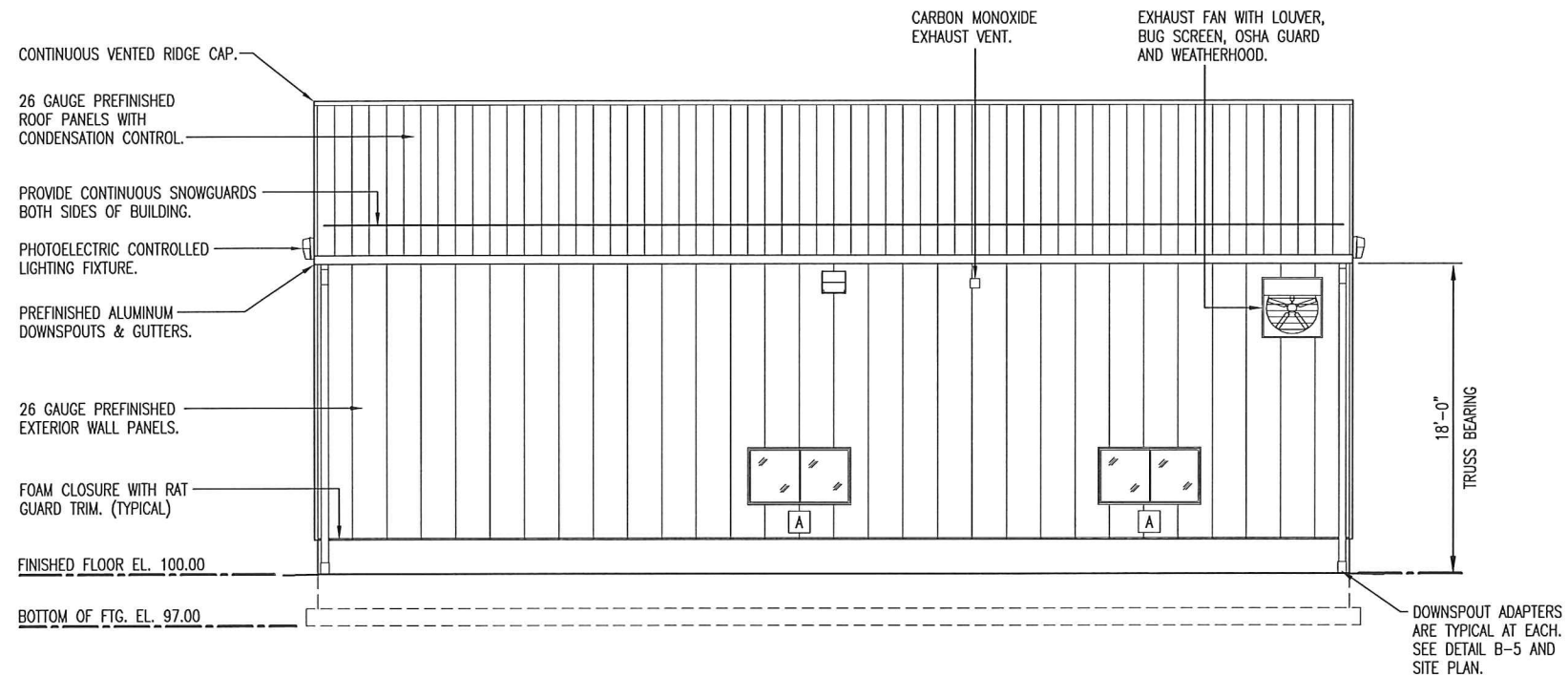
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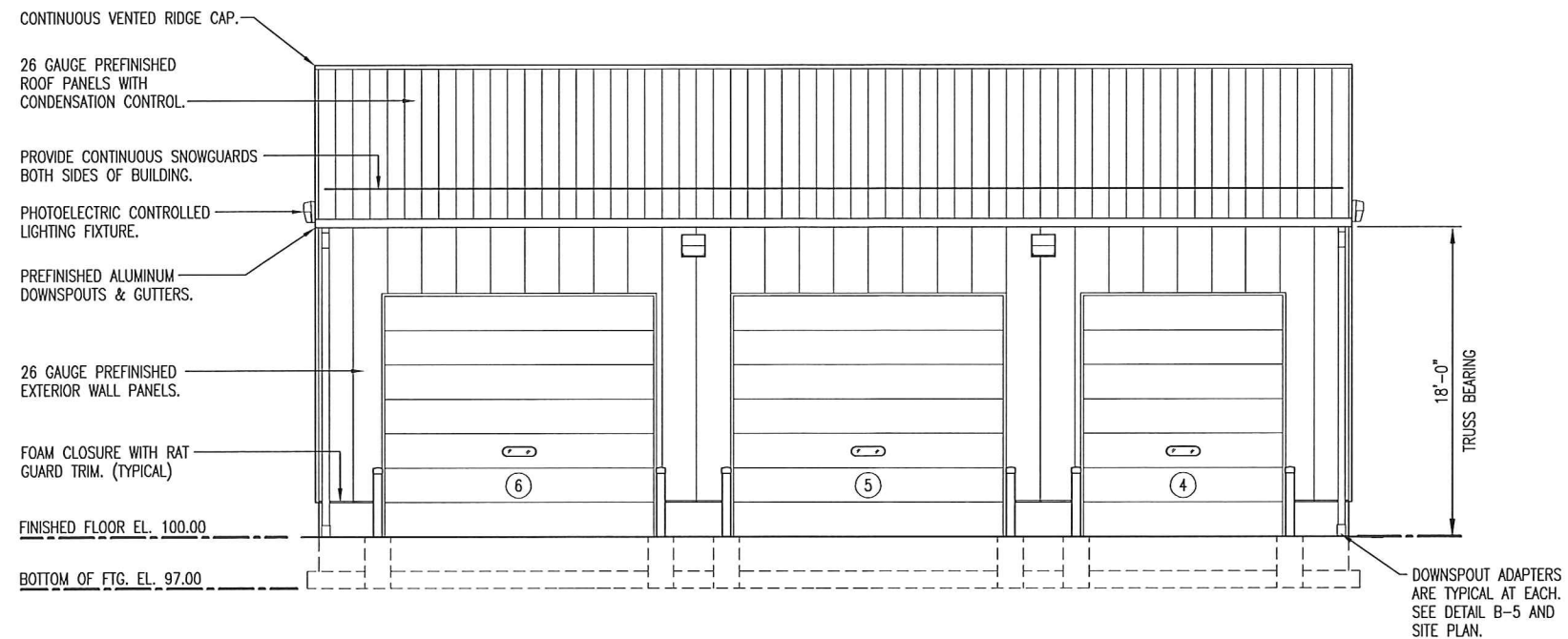
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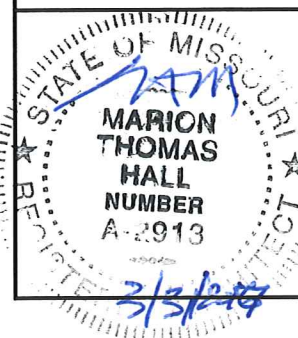
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B
8 **SOUTH ELEVATION**
SCALE: 3/32" = 1'-0"



A
8 **NORTH ELEVATION**
SCALE: 3/32" = 1'-0"

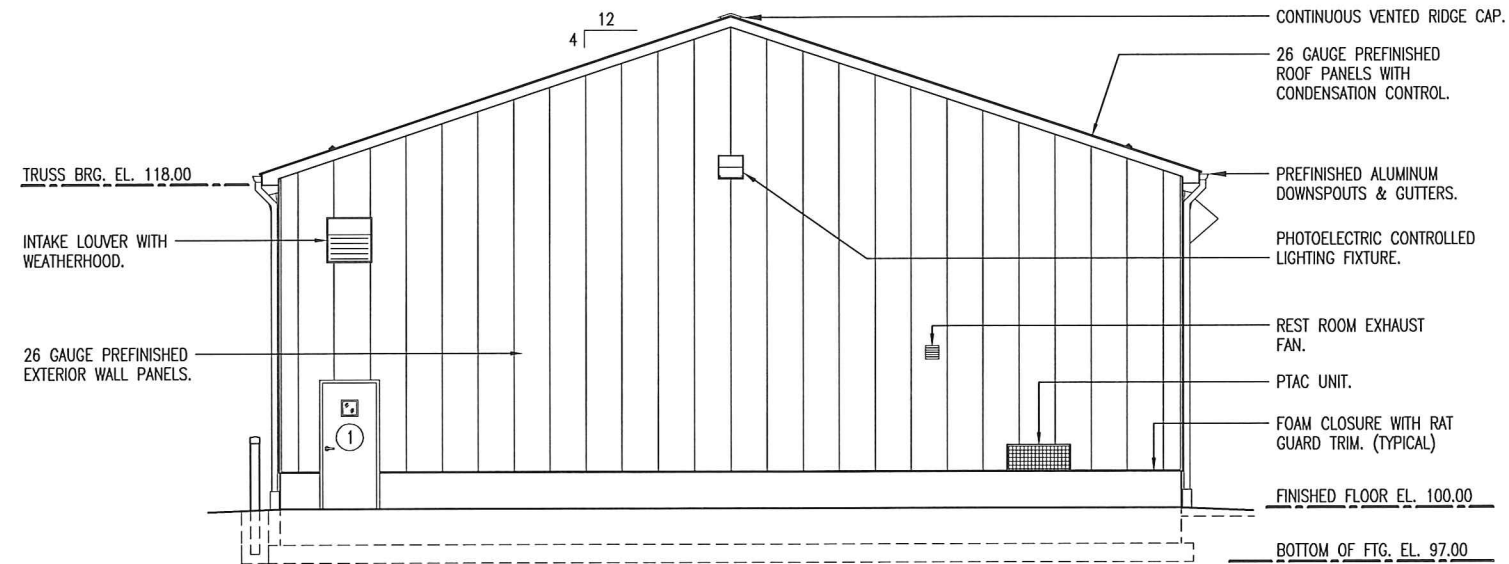


NORTH & SOUTH ELEVATIONS

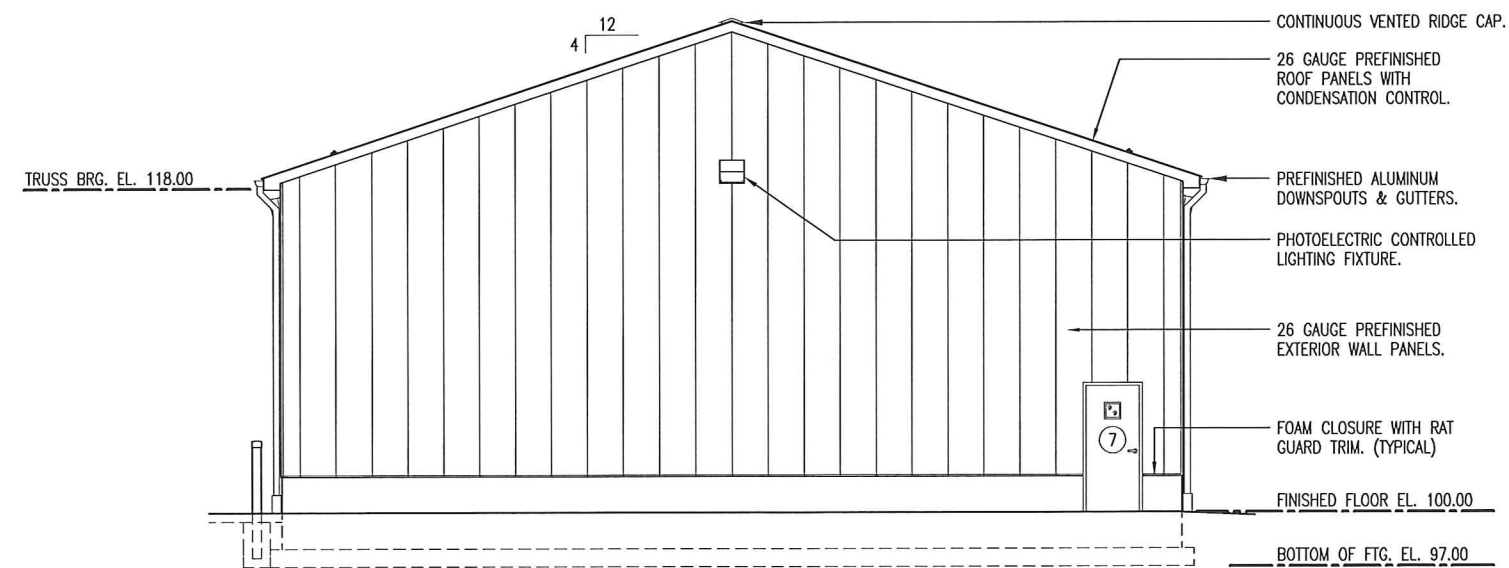
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B WEST ELEVATION
SCALE: 3/32" = 1'-0"



A EAST ELEVATION
SCALE: 3/32" = 1'-0"

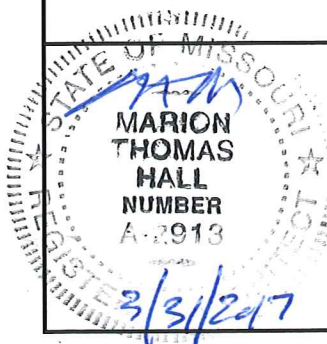
EAST & WEST ELEVATIONS

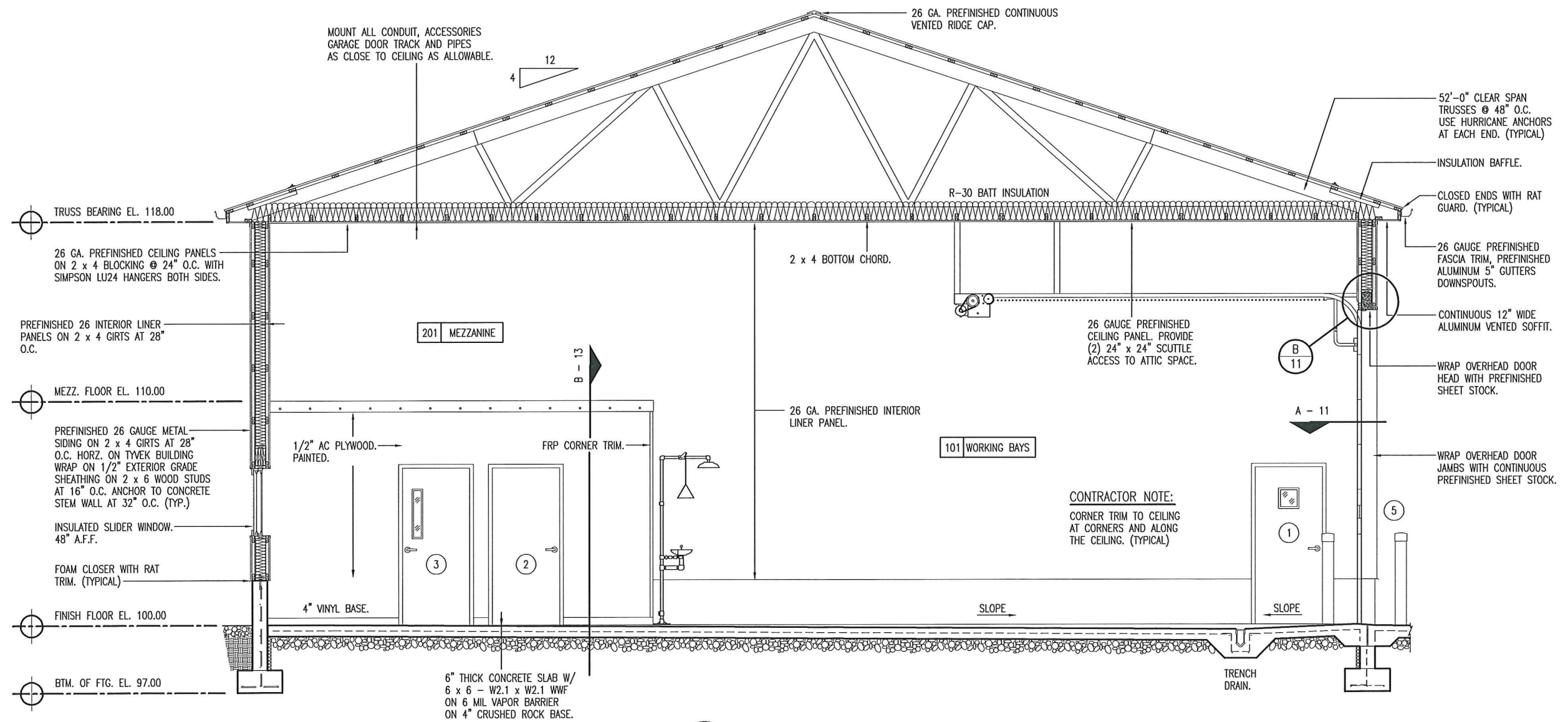
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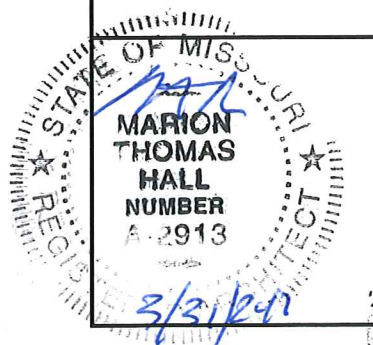
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BUILDING SECTION
A
10
SCALE: 3/16" = 1'-0"

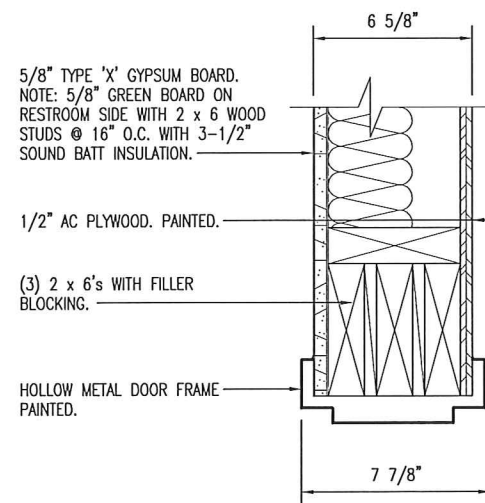


BUILDING SECTION

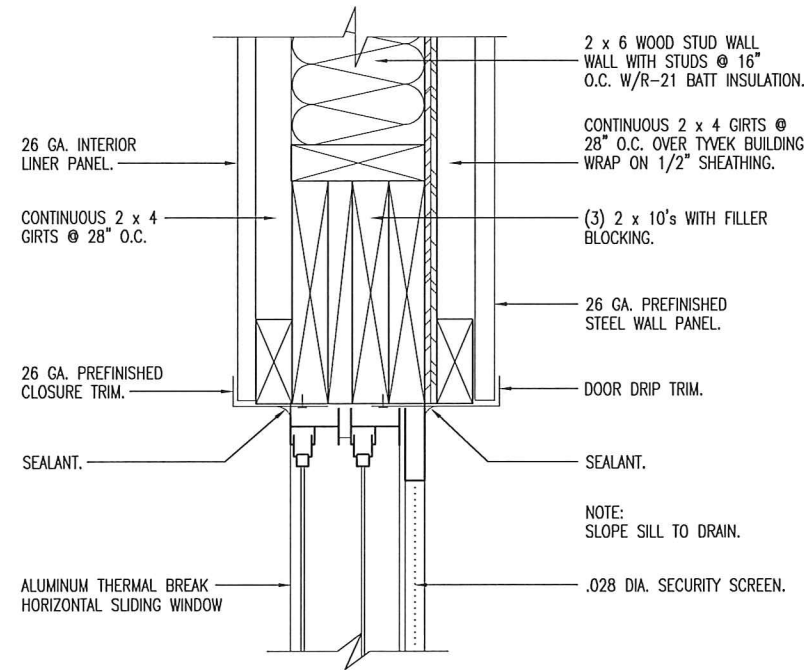
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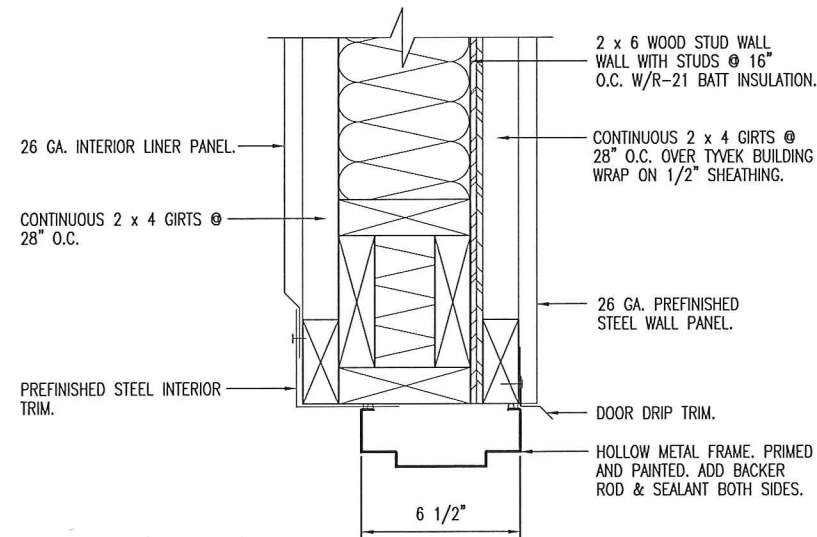
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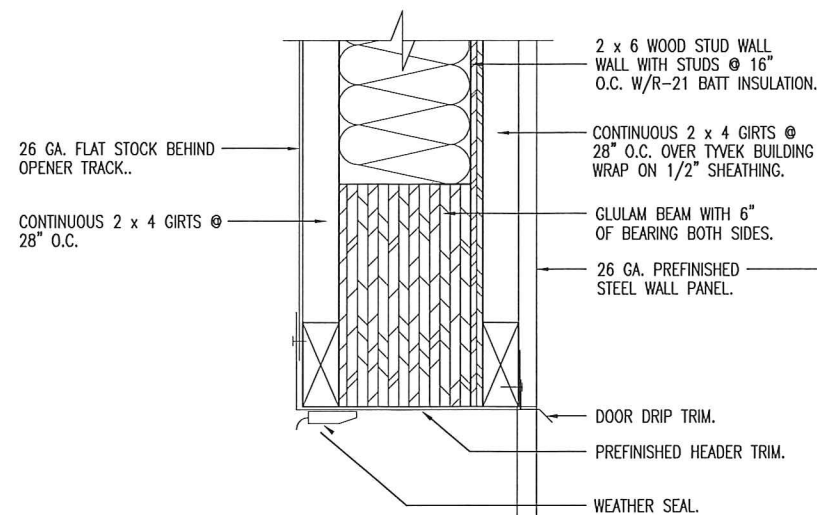
D JAMB SIMILAR
DOOR HEAD
SCALE: 1-1/2" = 1'-0"



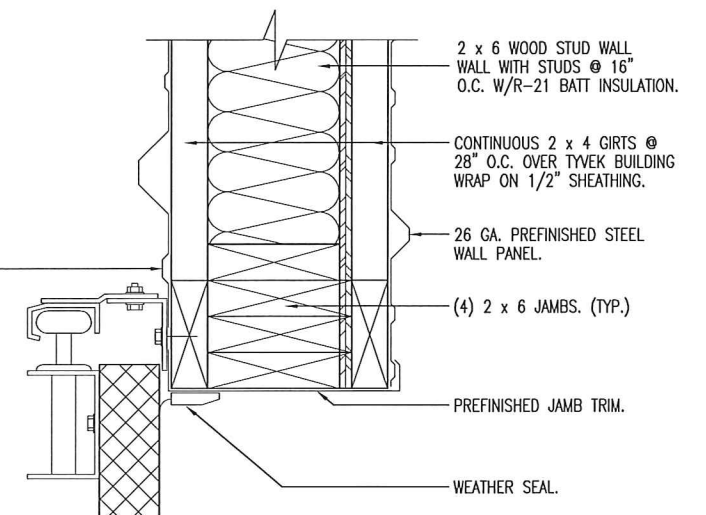
E JAMB & SILL SIMILAR
WINDOW HEAD
SCALE: 1-1/2" = 1'-0"



A **DOOR HEADER/JAMB**
SCALE: 1-1/2" = 1'-0"



B **GARAGE DOOR HEAD**
SCALE: 1-1/2" = 1'-0"



C **GARAGE DOOR JAMB**
SCALE: 1-1/2" = 1'-0"

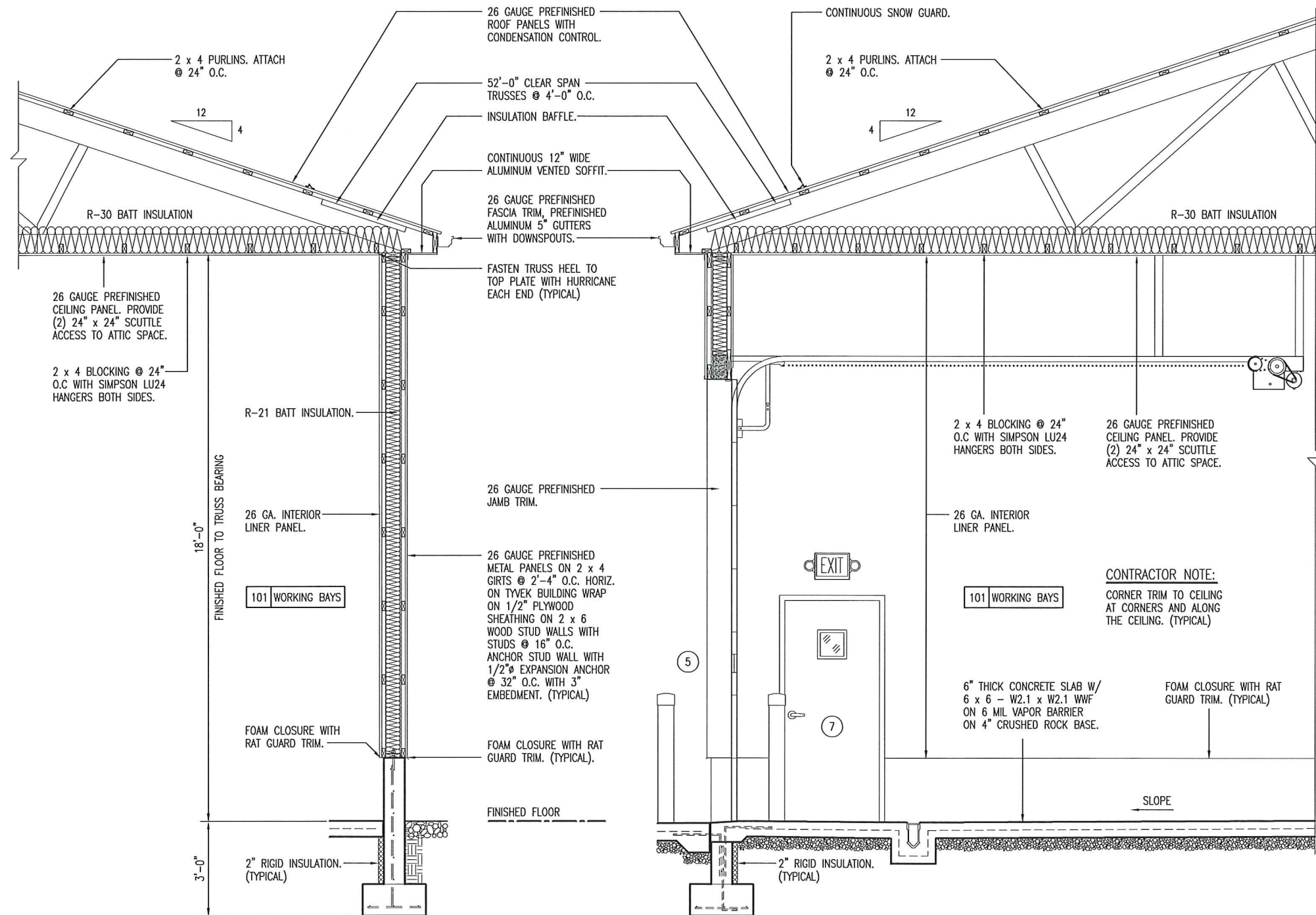
STATE OF MISSOURI
MARION THOMAS HALL
NUMBER A-2913
3/3/2017

HEAD & JAMB DETAILS

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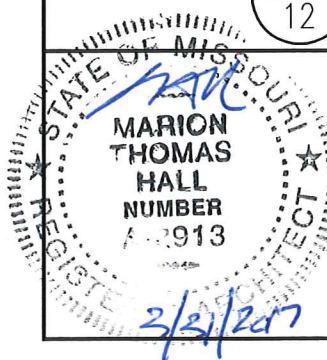
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A
12
SIDEWALL SECTION
SCALE: 1/4" = 1'-0"

B
12
OVERHEAD DOOR SECTION
SCALE: 1/4" = 1'-0"

C
12
ENDWALL SECTION
SCALE: 1/4" = 1'-0"

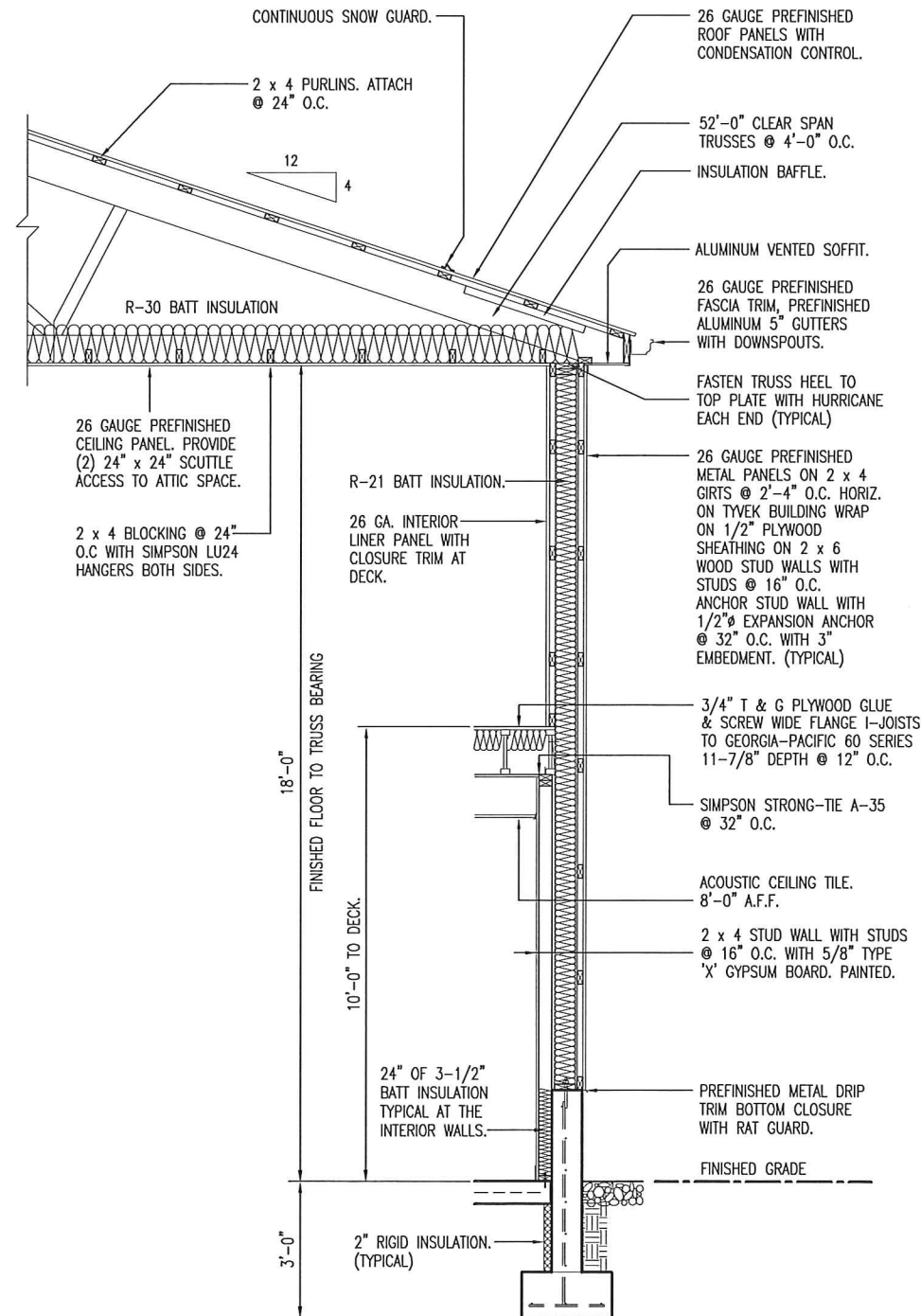


WALL SECTIONS

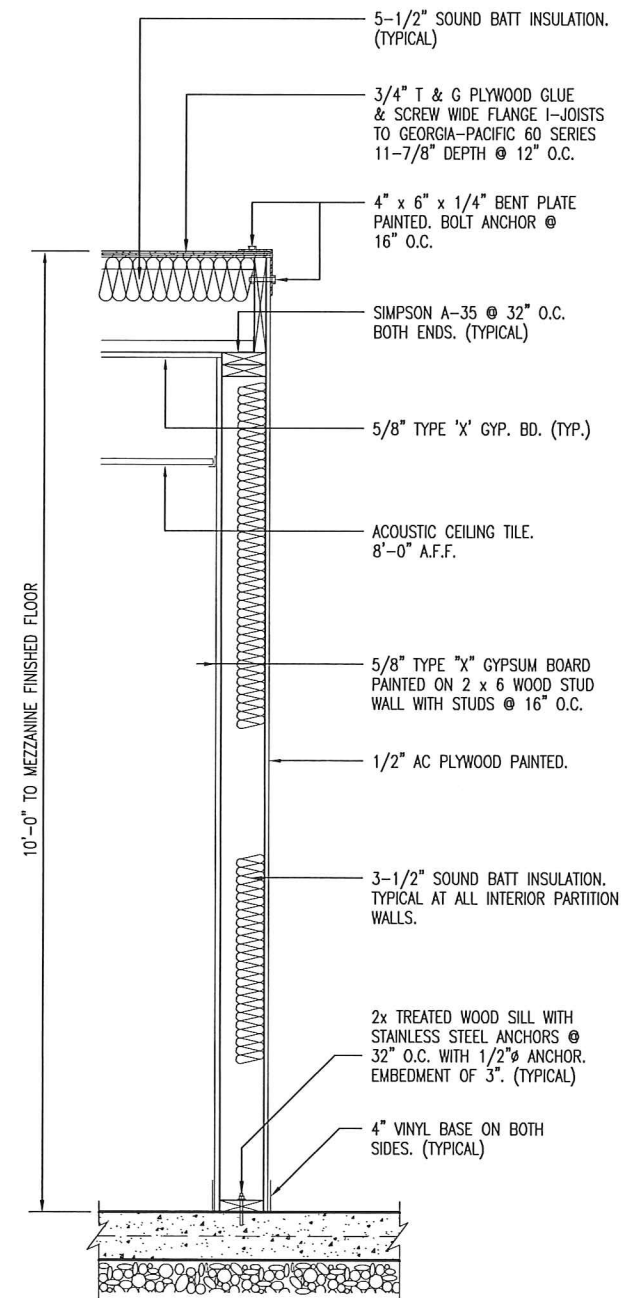
MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Belton Mechanics Building
Kansas City District - Cass County
Route 71 West Outer Road, Belton MO, 64012

DESIGN BY: LARRY CARVER
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A
13
SIDEWALL SECTION
SCALE: 1/4" = 1'-0"



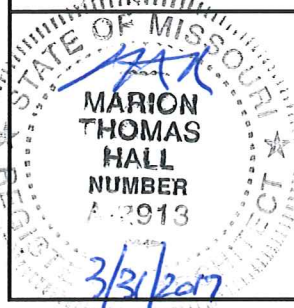
B
13
WALL SECTION
SCALE: 1/2" = 1'-0"

WALL SECTIONS

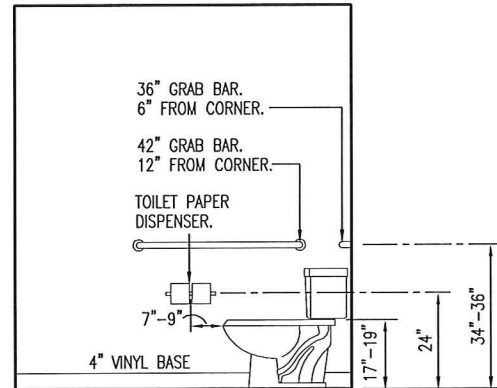
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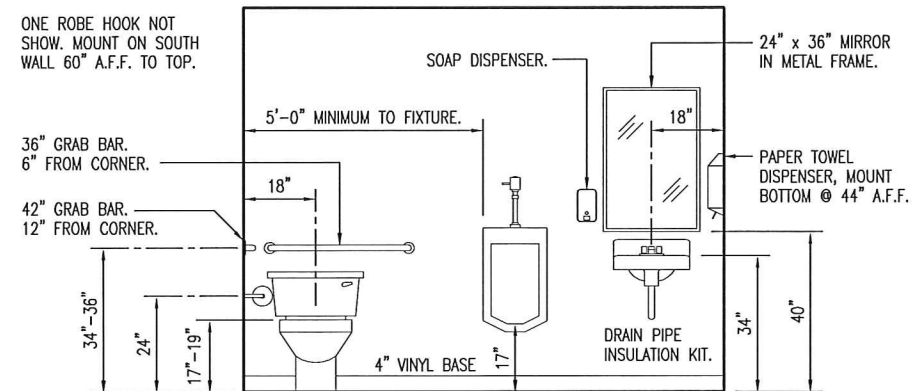


PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS



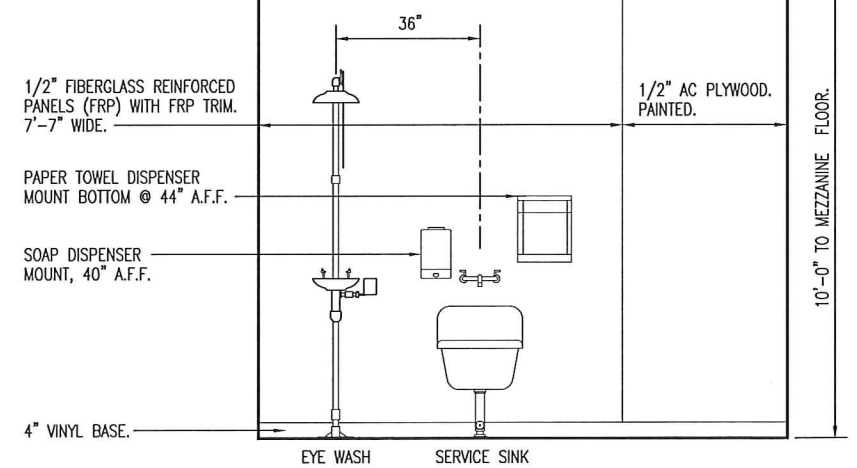
A REST ROOM ELEVATION
14 SCALE: 1/4" = 1'-0"

PROVIDE BLOCKING FOR ALL ACCESSORIES
COMPLY WITH 2010 ADA MOUNTING HEIGHTS

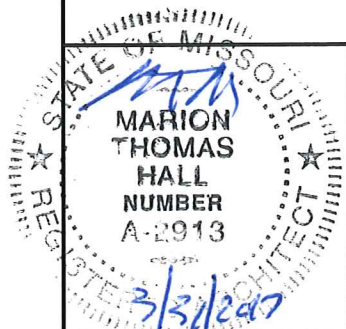


B REST ROOM ELEVATION
14 SCALE: 1/4" = 1'-0"

SEE DETAIL B-13.



C FIXTURE ELEVATION
14 SCALE: 1/4" = 1'-0"

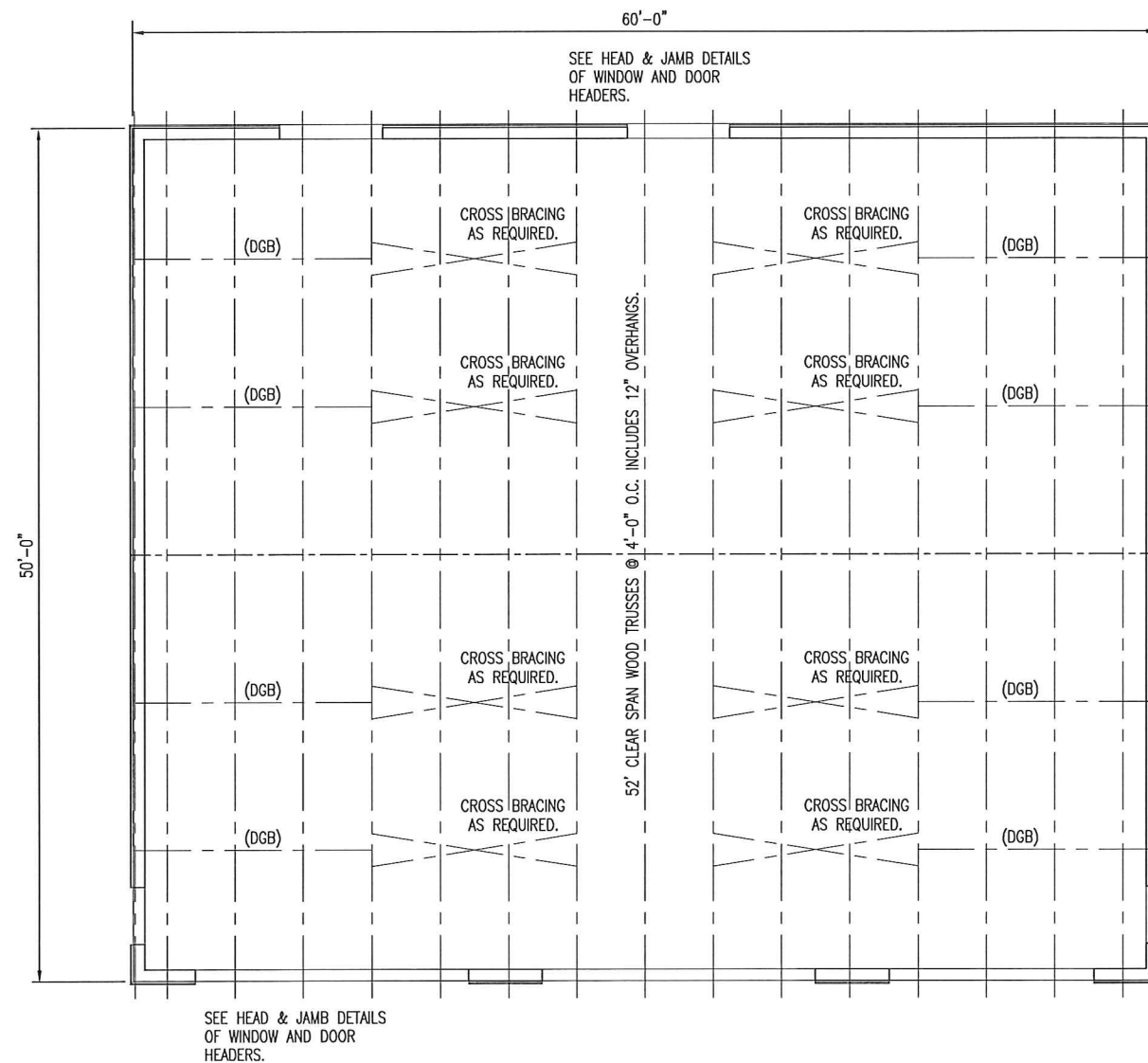


INTERIOR ELEVATIONS

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(DGB) DIAGONAL GABLE BRACING AS REQUIRED.

ROOF FRAMING NOTES

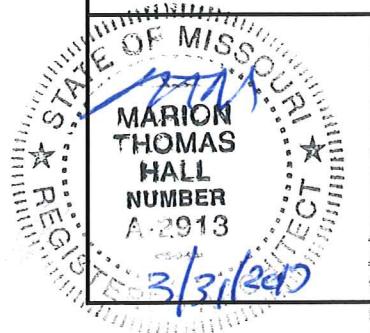
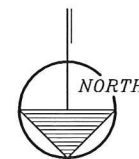
DESIGN LOADING FOR ROOF TRUSSES SHALL MEET THE FOLLOWING CRITERIA:

ROOF LIVE LOAD 25 PSF
 ROOF DEAD LOAD 4 PSF
 BOTTOM CORD DEAD LOAD 5 PSF
 ZONE 1, LATEST EDITION IBC
 90 MPH, EXPOSURE B
 L/360
 48" O.C. MAXIMUM

TRUSS DESIGN SUBMITTALS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSOURI.

ROOF TRUSSES AND RAFTERS SHALL BE ANCHORED TO THE TOP PLATE OF LOAD BEARING WALLS WITH SEISMIC AND HURRICANE ANCHORS EQUAL TO SIMPSON STRONG-TIE LUS24Z ANCHORS.

A ROOF FRAMING PLAN
 15 SCALE: 3/32" = 1'-0"



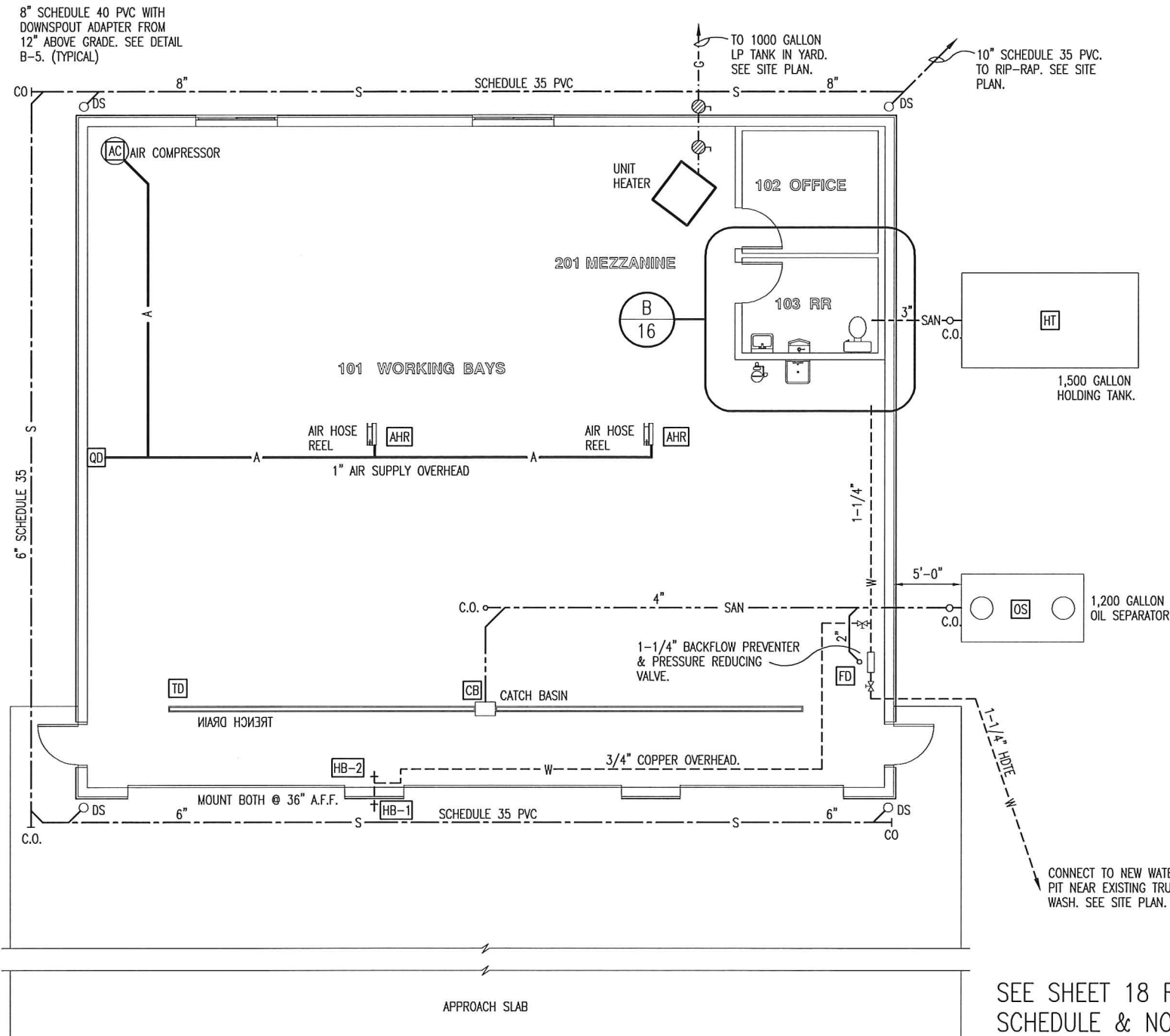
ROOF FRAMING PLAN

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Belton Mechanics Building
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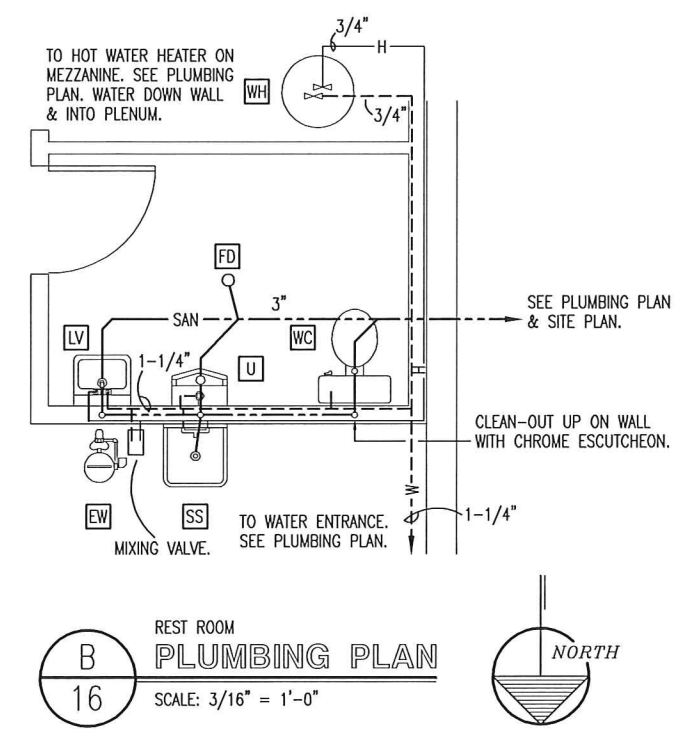
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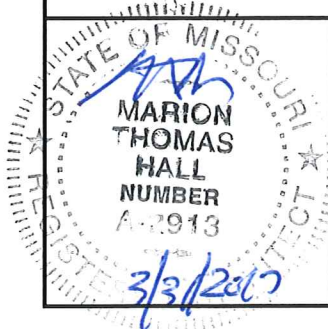
LEGEND

HOT WATER	— H —
WATER	— W —
SANITARY SEWER	— SAN —
STORM	— S —
COMPRESSED AIR	— A —
GAS	— G —
CLEANOUT	C.O. —
GAS VALVE	⊗



A
16
PLUMBING PLAN
SCALE: 3/32" = 1'-0"

SEE SHEET 18 FOR PLUMBING SCHEDULE & NOTES.

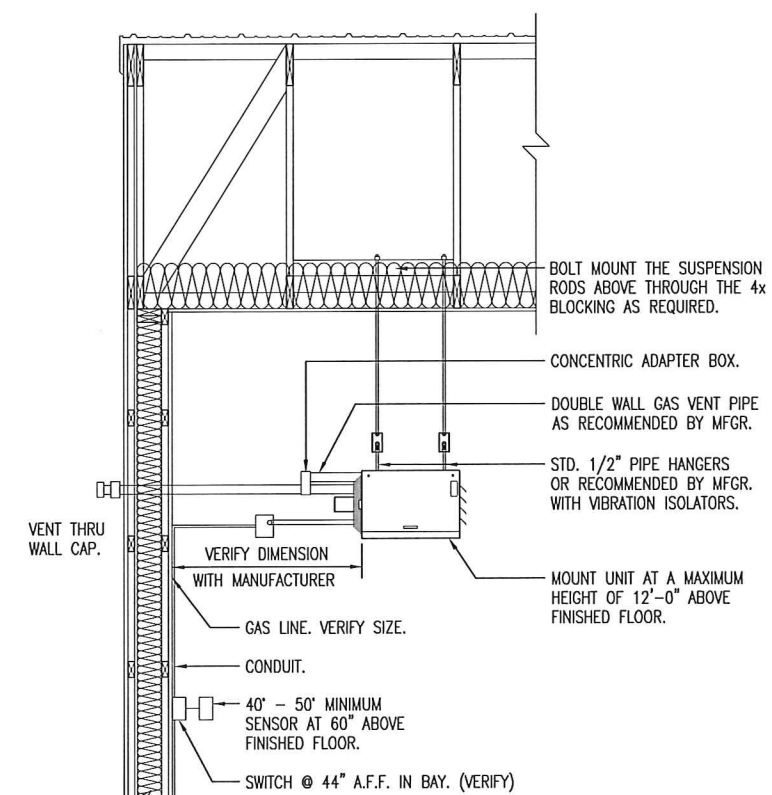
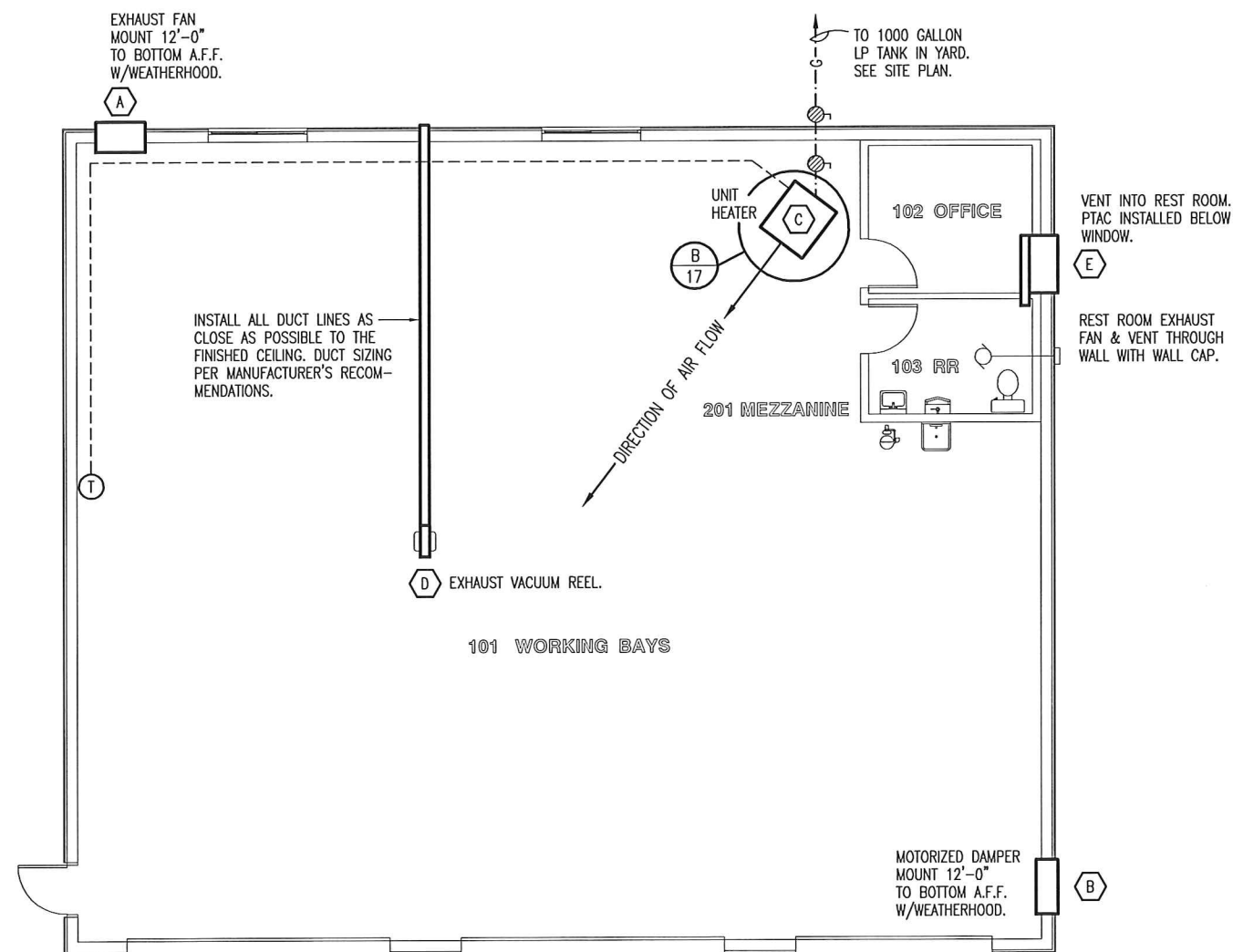


PLUMBING PLAN

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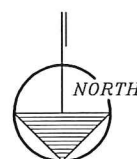
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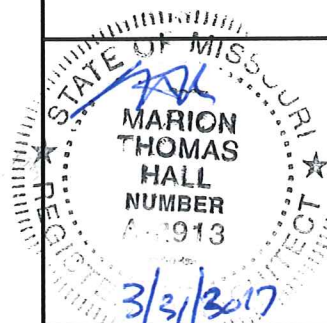
B UNIT HEATER INSTALLATION
17 NOT TO SCALE

A
17

 MECHANICAL PLAN
 SCALE: $\frac{3}{32}'' = 1'-0''$



SEE SHEET 7 FOR HVAC
FIXTURE SCHEDULE.



MECHANICAL PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION

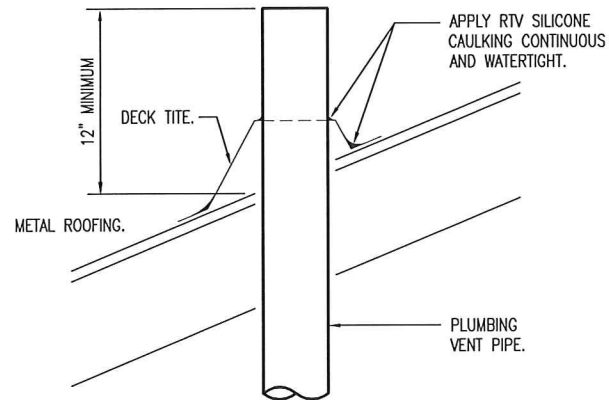
DIVISION OF GENERAL SERVICES FACILITIES MANAGEMENT

Belton Mechanics Building
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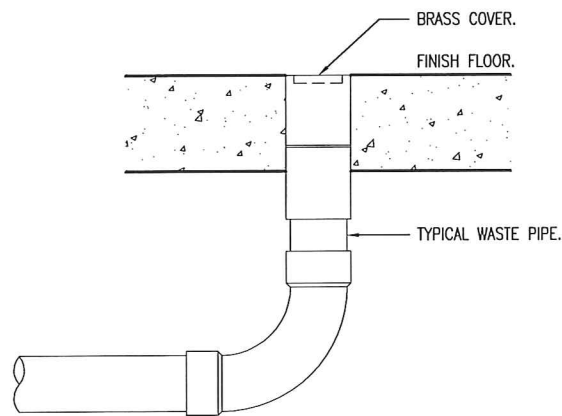
DATE: 3-10-17

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VENT THROUGH ROOF DETAIL

SCALE: NONE



FLOOR CLEANOUT DETAIL

SCALE: NONE

PLUMBING SCHEDULE						
SYM.	FIXTURE	PIPE CONNECTION				REMARKS
		CW	HW	S&W	VENT	
	WATER CLOSET	1/2"		3"	2"	EQUAL TO AMERICAN STANDARD #2377.100 FLOOR MOUNT. PRESSURE ASSISTED, ELONGATED WATER-SAVER "CADET" WATER CLOSET. 16-1/2" HIGH 3109.016 BOWL, 4098.100 TANK. INCLUDE OPEN FRONT SEAT WITH LID. (WHITE)
	URINAL	3/4"		1-1/2"	1-1/2"	EQUAL TO AMERICAN STANDARD #6601.021 "LYNBROOK" 1.0 GALLON URINAL WITH SLOAN ROYAL 180-1 FLUSH VALVE.
	LAVATORY	1/2"	1/2"	2"	2"	EQUAL TO AMERICAN STANDARD #4867.024, 20" x 18" ENAMELED, CAST IRON "REGALYN" WALL MOUNT LAVATORY WITH 4" CENTERSET SYMMONS SYMMETRIX S-20-2-BH SINGLE LEVER LAVATORY FAUCET. INCLUDE AN ADA APPROVED INSULATION KIT.
	SERVICE SINK	1/2"	1/2"	3"	2"	EQUAL TO KOHLER, K-6718, 22.25" x 18.25" ENAMELED, CAST IRON "BANNON" SERVICE SINK WITH CLEARWATER, K-7853 LEVER HANDLE FAUCET, AND K-6673-NA, P-TRAP.
	EMERGENCY EYE WASH	1-1/4"	3/4"			EQUAL TO BRADLEY "MODEL S19-310" DRENCH SHOWER/EYE WASH UNIT SAFETY YELLOW. S19-2100 THERMOSTATIC MIXING VALVE.
	WATER HEATER	3/4"	3/4"			A.O. SMITH MODEL NUMBER EES-30 (2) 4500 WATT, 240 VOLT ELEMENTS, 30 GALLON ELECTRIC WITH PRESSURE RELIEF VALVE OR EQUAL. MOUNT ON MEZZANINE WITH DRAIN PAN.
	HOSE BIBB	3/4"				EXTERIOR - EQUAL TO WOODFORD MODEL 67P-12 FREEZELESS WALL HYDRANT WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACK FLOW PREVENTER.
	HOSE BIBB	3/4"				INTERIOR - EQUAL TO WOODFORD MODEL 26 WALL FAUCET WITH 3/4" H.P.T. OUTLET, INTEGRAL VACUUM BREAKER-BACKFLOW PREVENTER.
	FLOOR DRAIN			2"		PVC FLOOR DRAIN WITH P-TRAP, 6-1/2" DIA. NICKLE-BRONZE STRAINER, 2" FIP THREADED THROAT-BALL BACKWATER DEVICE. 1-1/2" PRE-INSTALLED FIP CLEAN-OUT THREADS.
	CLEAN OUT					INTERIOR APPLICATIONS: BRASS WITH ADAPTER AND CAP EQUAL TO PIPE SIZE SHOWN. EXTERIOR APPLICATIONS USE PVC.
	AIR COMPRESSOR					EQUAL TO INGERSOLL-RAND MODEL #2340, 28A, 5 HP, 60 GALLON VERTICAL, 2-STAGE. PROVIDE RUBBERIZED WASHERS AT EACH FLOOR MOUNT TO ACT AS A SHOCK ABSORBER. SIZE MOUNT AS REQUIRED. PROVIDE LINE FILTERS AS REQUIRED. 30A BREAKER.
	AIR HOSE REEL					EQUAL TO REELCRAFT 7850 OLP 57 300 LOW PRESSURE HEAVY DUTY ALL STEEL CONSTRUCTION WITH ONE PIECE WRAP AROUND GUIDE ARM.
	QUICK DISCONNECT					VERIFY SIZE WITH MODOT MECHANIC. MOUNT AT 48" A.F.F. ATTACH RIGIDLY TO GIRTS.
	TRENCH DRAIN			4"		EQUAL TO ACO K100 CHANNEL SLOPE TRENCH DRAIN SYSTEM WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE.
	CATCH BASIN			4"		EQUAL TO ACO K900 CATCH BASIN, WITH PLASTIC TRASH BUCKET WITH TYPE 461Q DUCTILE QUICKLOC CAST IRON GRATE FOR LID.
	OIL SEPARATOR			4"		EQUAL TO CHAMPION PRECAST INC. 1,200 GALLON OIL & GREASE INTERCEPTOR STOCK STANDARD NO. 140-00219D. HEAVY DUTY PRECAST CONCRETE. H-20 LOADING, 8" CAST IRON FRAME, LID AND COLLAR. PH: (573)384-5855.
	HOLDING TANK					CONCRETE 1,500 GALLON EQUAL TO MURDON CORPORATIONS H20 RATED WITH 35B LID AND RING. PHONE: 1-800-748-7758.

MECHANICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- MECHANICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE IBC MECHANICAL CODE.
- PROVIDE EQUIPMENT AND APPURTENANCES NOT NECESSARILY SHOWN OR SPECIFIED BUT NEEDED FOR COMPLETE AND PROPER INSTALLATION.
- ALL EQUIPMENT AND MATERIALS, IN PARTICULAR VALVES, FILTERS, MOTORS, AND CONTROLS SHALL BE ARRANGED TO PROVIDE PROPER CLEARANCE FOR SERVICE, MAINTENANCE AND INSPECTION.
- MECHANICAL SUBCONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH PLUMBING AND ELECTRICAL WORKERS PRIOR TO COMMENCING OF THE MECHANICAL INSTALLATION.
- PROVIDE BLOCKING TO HVAC DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- MECHANICAL CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A FUNCTIONAL SYSTEM.

PLUMBING NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- PLUMBING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
- PLUMBING SHALL BE LOCATED AND PLACED UNDER THE SLAB PRIOR TO POURING OF CONCRETE. PIPING SHALL BE RUN IN SAND FILLED TRENCH UNDER THE BASE ROCK AND SLEEVED WITH PVC WHENEVER RUN THROUGH CONCRETE.
- PROVIDE PLUMBING EQUIPMENT AND ACCESSORIES REQUIRED FOR COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- PLUMBING VENTS ARE NOT SHOWN ON THE PLANS. ALL FIXTURES SHALL BE PROPERLY VENTED AS PER IBC PLUMBING CODE. VENT AS CLOSE AS POSSIBLE TO EXTERIOR WALLS.
- ROOF VENTS SHALL BE COMBINED WHEREVER IN COMPLIANCE WITH THE NATIONAL PLUMBING CODE TO MINIMIZE ROOF PENETRATIONS.
- PROVIDE SHUT OFF VALVES AT EACH FIXTURE.
- PROVIDE SHOCK ABSORBERS AS REQUIRED AT EACH FAUCET.
- SEE MECHANICAL PLAN FOR GAS PIPING AND MECHANICAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE CAST IRON VENT PIPING IN PLENUM AS REQUIRED BY CODE. SECURE AS REQUIRED.
- EXTERIOR BELOW GROUND WATER DISTRIBUTION PIPING SHALL RUN A MINIMUM OF 36" BELOW FINISH GRADE.
- CONTRACTOR TO PROVIDE 1-1/4" BACK FLOW PREVENTER AND A PRESSURE REDUCING VALVE IN 101 MECHANICS AS REQUIRED.
- PROVIDE BLOCKING TO ALL FIXTURES AS REQUIRED FOR A SECURE APPLICATION.

A
18

PLUMBING & MECHANICAL NOTES

SCALE: NONE



Plumbing & Mechanical Notes

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OF TRANSPORTATION

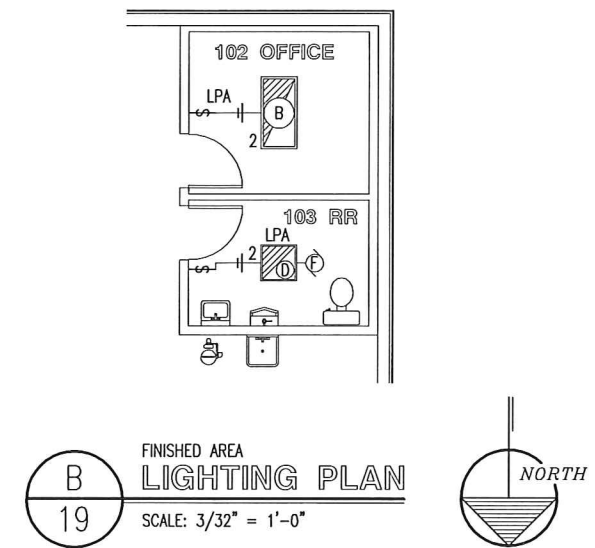
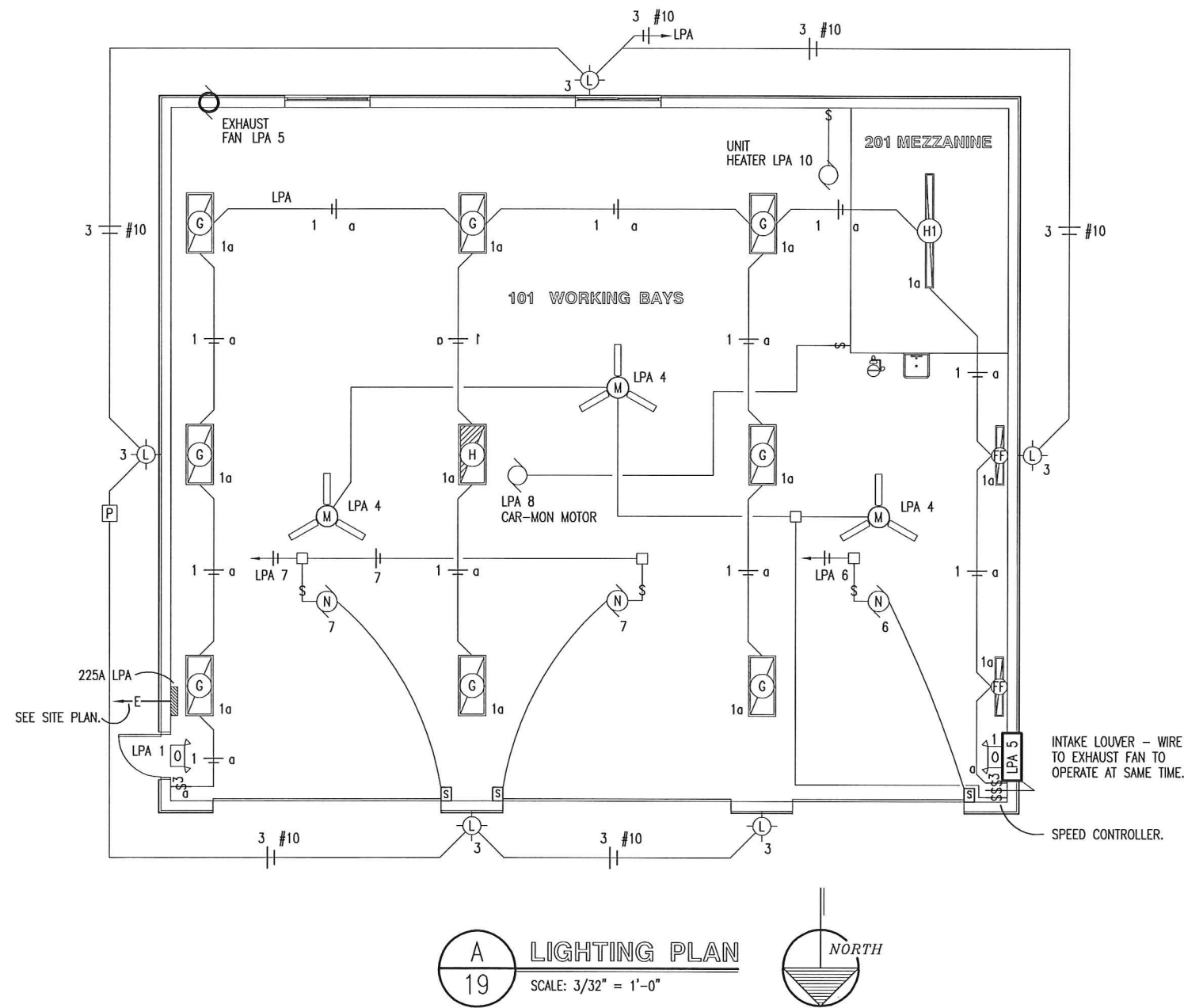
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FACILITIES MANAGEMENT

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Kansas City District - Cass County
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SEE ELECTRICAL SCHEDULE
& NOTES SHEET 21.

LIGHTING PLAN

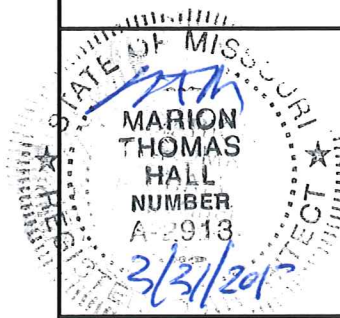
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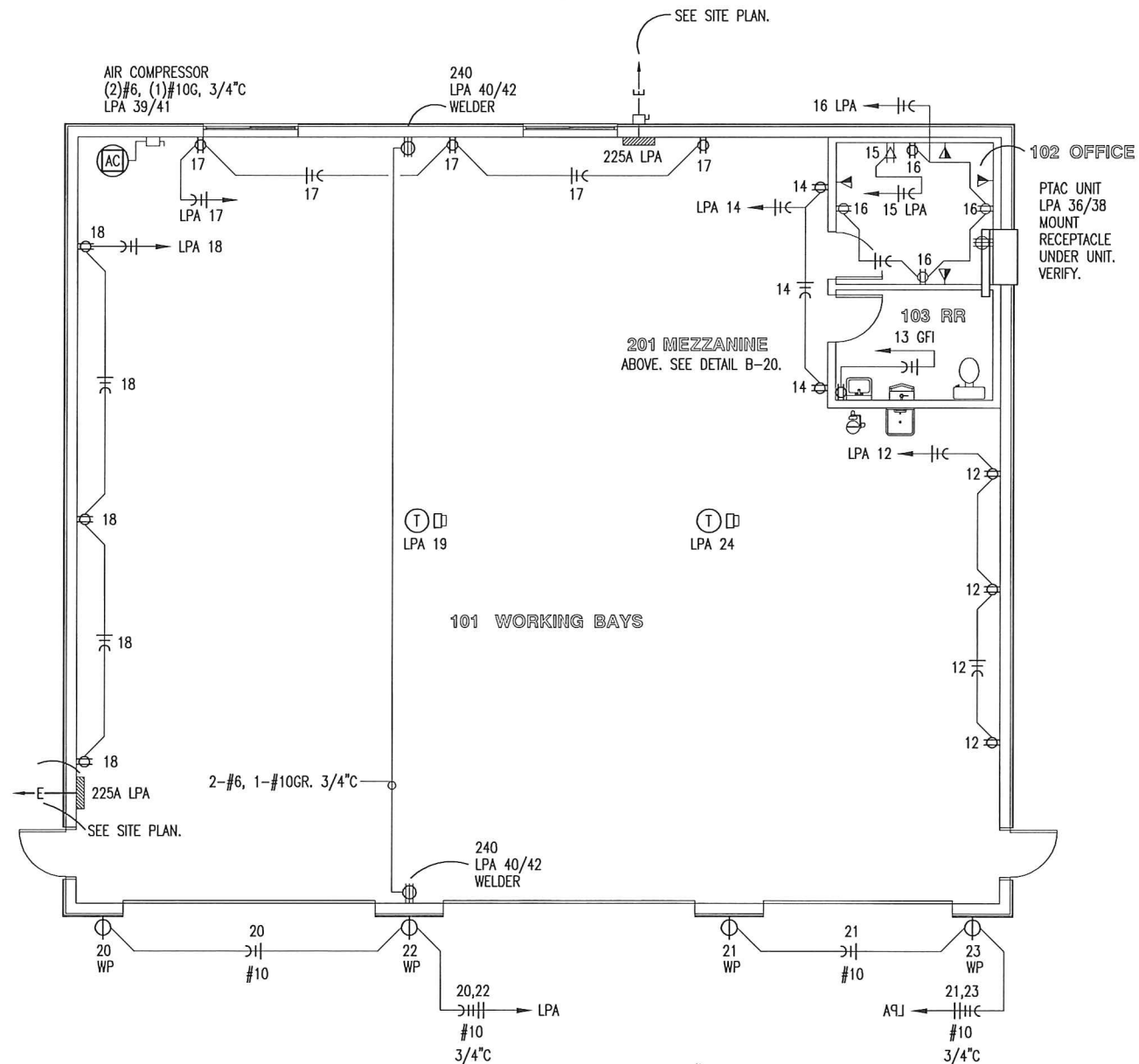
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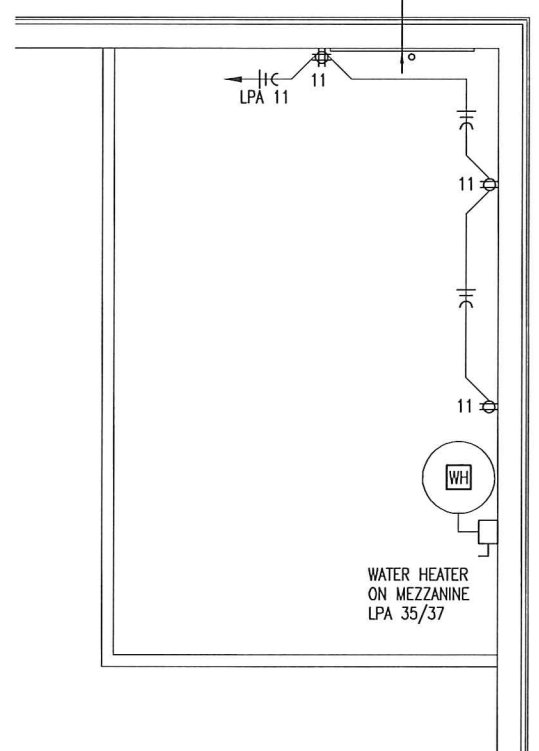




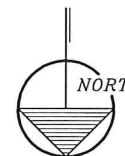
A
20
POWER PLAN
SCALE: 3/32" = 1'-0"



CONTRACTOR TO MOUNT 4' x 4" AC PLYWOOD OVER PREFINISHED WALL PANEL. MOUNT 2" SCH. 40 PVC THROUGH MEZZANINE FLOOR TO BELOW I-JOISTS. RUN 1" PVC FROM DATA OUTLETS IN OFFICE TO 1" ABOVE ACOUSTIC CEILING TILE.



B
20
POWER PLAN
MEZZANINE
SCALE: 3/16" = 1'-0"



LEGEND

- \$ WP SINGLE POLE OR 3-WAY SWITCH, MOUNT IN FS BOX WITH HUBBELL HBL7420 COVER.
- Φ WP DUPLEX RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL5221 COVER.
- Φ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- \$³ 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- \$⁴ 4-WAY SWITCH, SURFACE MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- Φ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED OFFICE, REST ROOMS AND BREAK ROOM @ 18" A.F.F. TO BOTTOM OF OUTLET.
- Φ DUPLEX RECEPTACLES IN WORK BAYS STORAGE, MEZZANINE AND EXTERIOR @ 48" A.F.F.
- Φ WELDER RECEPTACLE (LEVITON #5374) SURFACE MOUNTED 48" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- NO FUSED DISCONNECT SWITCH.
- Φ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- NON FUSED DISCONNECT SWITCH.
- ▽ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ▽ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.

SEE ELECTRICAL SCHEDULE
& NOTES SHEET 21.















POWER PLAN

MISSOURI DEPARTMENT
OF TRANSPORTATION
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FACILITIES MANAGEMENT

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ELECTRIC SCHEDULE					
MANUF.	MODEL	#	LAMPS TYPE	W	MNT REMARKS
WILLIAMS 	50G-S24-LED*UT 50/835-RPC12125-EM/BSL310-ED*UT-UNV		LED	51	CLG 24" x 48" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
WILLIAMS 	50G-S22-LED*UT30/85-RPC12125-EM/BSL310-ED*UT-UNV		LED	25	CLG 24" x 24" STATIC TROFFER FIXTURE, HOUSING: 22 GAUGE DIE FORMED C.R.S. SHIELDING: FROSTED PATTERN #12 & EMERGENCY DRIVER.
BROAN 	GRAINGER #5NPZ7				CLG 80 CFM CEILING MOUNT BATHROOM VENTILATOR. BROAN WALL CAP, GRAINGER #4C388.
WILLIAMS 	GL-4-L200/840-WG11-DRV-UNV		LED	174	CLG 14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD.
WILLIAMS 	GL-4-L200/840-EM/BSL310-WG11-DRV-UNV		LED	174	CLG 14-3/16" x 48" DIE-FORMED ALUMINUM HOUSING WITH WIRE GUARD. BACK MOUNTED EMERGENCY LED DRIVER.
WILLIAMS 	75L-8-L40-DMA-WG-7511-LED		LED	111	CLG 3-5/16" x 96", 22-GAUGE DIE-FORMED CRS HOUSING WITH WIRE GUARD.
LITHONIA 	TWR1LED 1 40K MVOLT		LED	33	WALL EXTERIOR, SURFACE MOUNT LIGHT FIXTURE, WITH ALUMINUM HOUSING. PRISMATIC GLASS LENS.
DAYTON 	GRAINGER #5NPZ3				CLG SINGLE-SPEED, 48" THREE-BLADE, HEAVY DUTY COMMERCIAL CEILING FAN. ADD SPEED CONTROL WITH REVERSE SWITCH. DAYTON #5NRA4.
	OVERHEAD DOOR OPERATOR				WALL 115V, 3/4 HP, 1-PH, TROLLEY TYPE. SEE SPECIFICATION SECTION 08720.
LITHONIA 	LHQM P W3 R N				WALL QUANTUM THERMOPLASTIC EXIT/UNIT COMBO (2) LED 5.4 KRYPTON LAMPS.
TORK 	2001				WALL 120V PHOTO ELECTRIC CONTROL OF EXTERIOR LIGHTS.
	OVERHEAD DOOR CONTROL				WALL THREE BUTTON OVERHEAD DOOR CONTROL AS SUPPLIED BY OVERHEAD DOOR MANUF. SEE SPECIFICATION SECTION 08720.
REELCRAFT 	L 4050 163 1				CLG CEILING MOUNTED SPRING RETRACTABLE, ELECT. CORD REEL WITH INCANDESCENT LAMP & THREE PRONG OUTLET PLUG.
CREE 	LS4-40L-40K-10V-120		LED	40	WALL 2-5/8" x 48" SURFACE AMBIENT, 22 GAUGE, LOW-GLARE ACRYLIC LENS, WHITE. MOUNT 92" A.F.F. TO BOTTOM.
ELECTRICAL FIXTURES AND EQUIPMENT ARE SCHEDULED BY MANUFACTURER AND MODEL NUMBER FOR DESIGN INTENT ONLY, APPROVED EQUALS MAY BE SUBSTITUTED.					

SERVICE PANEL LPA									
MAIN BUS: 225A MLO VOLTS: 240/120, 1PH, 3-WIRE BUS MATERIAL: COPPER MOUNTING: SURFACE			SQUARE "D" NQOD OR EQUAL W/ NEUTRAL BUS & GROUNDING BUS CIRCUIT BREAKERS BOLT-IN 10000 AIC			CONNECTED LOAD A PHASE 19574 VA B PHASE 21067 VA TOTAL 40641 VA 169 A			
CIR	SERVICE	VA	BKR		BKR	VA	SERVICE	CIR	
1	101 LIGHTS	1769	20A1P	A	20A1P	136	102,103 LIGHTS & FAN	2	
3	EXTERIOR LIGHTS	165	20A1P	B	20A1P	234	CEILING FANS	4	
5	EXHAUST FAN & DAMPER	813	20A1P	A	20A1P	1288	GARAGE DOOR OPENER	6	
7	GARAGE DOOR OPENERS	3264	35A1P	B	20A1P	1656	CARBON MONOXIDE	8	
9	SPARE	-	20A1P	A	20A1P	900	GAS FIRED UNIT HEATER	10	
11	RECEPTACLES ON MEZZANINE	720	20A1P	B	20A1P	540	RECEPTACLES	12	
13	RR GFI RECEPTACLE	180	20A1P	A	20A1P	180	RECEPTACLES	14	
15	102 DEDICATED RECEPTACLE	180	20A1P	B	20A1P	720	102 OFFICE RECEPTACLES	16	
17	RECEPTACLES	540	20A1P	A	20A1P	540	RECEPTACLES	18	
19	CORD REEL	180	20A1P	B	20A1P	1000	EXTERIOR - RECEPTACLE	20	
21	EXTERIOR - RECEPTACLE	1000	20A1P	A	20A1P	1000	EXTERIOR - RECEPTACLE	22	
23	EXTERIOR - RECEPTACLE	1000	20A1P	B	20A1P	180	CORD REEL	24	
25				A				26	
27				B				28	
29				A				30	
31				B				32	
33				A				34	
35	WATER HEATER	2600	30A2P	B	20A2P	768	102 - PTAC HEAT PUMP	36	
37		2600		A		768		38	
39	AIR COMPRESSOR	3360	30A2P	B	50A2P	4500	101 WELDER	40	
41		3360		A		4500		42	

● CIRCUIT BREAKER SHALL BE GFI RATED

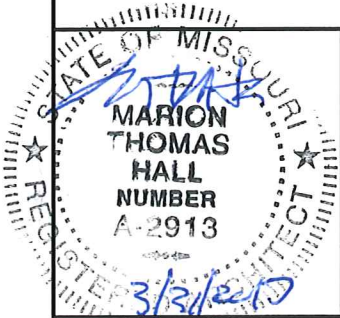
ELECTRICAL NOTES

- DRAWINGS AND DIAGRAMS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.).
- PROVIDE ELECTRICAL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS REQUIRED BY MANUFACTURER'S INSTRUCTIONS AND DIRECTIONS FOR SYSTEMS SPECIFIED.
- SWITCHES AND RECEPTACLES SHALL BE EQUAL TO THE AMPERE RATING SHOWN IN THE PANEL SCHEDULE. RECEPTACLES SHALL BE GROUND-FAULT INTERRUPTION TYPE WHERE SHOWN OR AS REQUIRED BY CODE.
- ALL RECEPTACLES IN BAY AREA TO BE MOUNTED AT 48" A.F.F.
- COORDINATE WORK WITH OTHER TRADES PRIOR TO COMMENCING WITH ELECTRICAL WORK.
- CONDUCTOR AND BREAKER SIZE MAY VARY PER MANUFACTURER ON THE EQUIPMENT SPECIFIED. ELECTRIC CONTRACTOR TO VERIFY SIZES WITH EXACT EQUIPMENT ORDERED PRIOR TO PURCHASING ELECTRICAL SUPPLIES.
- FIXTURE LOCATIONS ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED AFTER COLLABORATION WITH THE OWNER AND OTHER TRADES.
- CONTRACTOR SHALL PROVIDE SERVICE DISCONNECTS AS REQUIRED AT EXTERIOR OF BUILDING.
- PROVIDE BLOCKING FOR ELECTRICAL DEVICES AS REQUIRED FOR A SECURE APPLICATION.
- SEE SPECIFICATION SECTION 16100 - ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- MC CABLE CAN BE USED INSIDE OFFICE AREAS ONLY IN LIEU OF CONDUCTORS IN CONDUIT. WORK BAYS SHALL HAVE SURFACE MOUNTED CONDUCTORS IN CONDUIT.

LEGEND

- ⌀ WP SINGLE RECEPTACLE MOUNTED IN FS BOX WITH HUBBELL HBL7423 COVER.
- \$ SINGLE POLE SWITCH, FLUSH MOUNTED IN FINISHED AREAS @ 48" A.F.F.
- \$³ 3-WAY SWITCH, SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- ⌀ DUPLEX RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
DUPLEX RECEPTACLE SURFACE MOUNTED IN UNFINISHED AREAS @ 48" A.F.F.
- ⌀ WELDER RECEPTACLE (LEVITON #5374) SURFACE MOUNTED 42" A.F.F., MOUNT IN 4" SQUARE BOX WITH RAISED COVER.
- ⌀ GFI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER. PROVIDE SEPARATE GROUND PER CIRCUIT. TYPICAL.
- JUNCTION BOX, SIZE FOR WIRE, FILL ACCORDING TO ARTICLE 314-16 OF THE N.E.C.
- NON FUSED DISCONNECT SWITCH.
- ⌋ DEDICATED RECEPTACLE FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.
- ⌋ VOICE AND DATA OUTLET FLUSH MOUNTED IN FINISHED AREAS @ 18" A.F.F. TO BOTTOM OF OUTLET.

- #12 COPPER NEUTRAL CONDUCTOR UNLESS NOTED.
- #12 COPPER PHASE CONDUCTORS UNLESS NOTED.
- 1/2" EMT UNLESS NOTED.
- #12 COPPER GROUNDING CONDUCTOR UNLESS NOTED.



ELECTRICAL PANEL

MISSOURI DEPARTMENT
OF TRANSPORTATION
DIVISION OF GENERAL SERVICES
FACILITIES MANAGEMENT

Belton Mechanics Building
Kansas City District - Cass County
Route 71 West Outer Road, Belton MO, 64012

DESIGN BY: LARRY CARVER

DATE: 3-10-17

Sheet

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